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LYC 77-56

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Lycoming Div.) 193 p HC A09/MF A01 CSCL 20A

N78-25828

Unclas  
G3/71 21341

## ***FINAL REPORT***

VOLUME II

# **YF 102 IN-DUCT COMBUSTOR NOISE MEASUREMENT**

*by*

*Craig A. Wilson*

**AVCO LYCOMING DIVISION  
550 South Main Street  
Stratford, Connecticut 06497**

prepared for

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

NOVEMBER 1977

CONTRACT NAS 3-20052

NASA Lewis Research Center  
Cleveland, Ohio



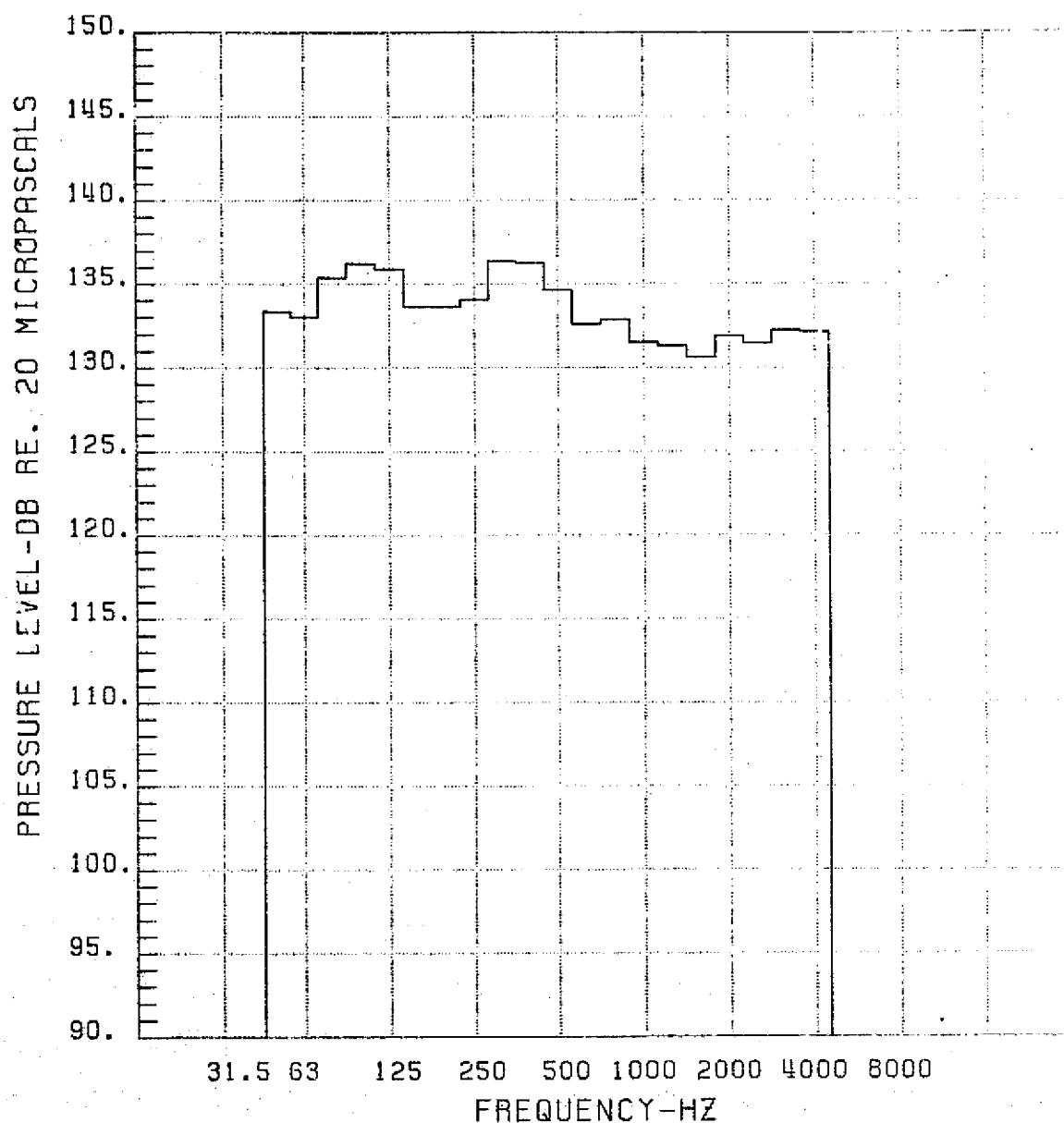
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APPENDIX B  
ONE-THIRD OCTAVE BAND  
PRESSURE LEVEL PLOTS  
(Probes 1 through 6)

Group I (Table I)	Runs 2, 3, 6A, 6B, 6C, 7, and 10
Group II (Table II)	Runs 1, 4, 5, 8, and 9
Group III (Table III)	Runs 19, 20, 22, 23, and 24
Group IV (Table IV)	Runs 14, 21, 15, 16, 17, 26, 27, 25, and 30
Group V (Table V)	Runs 12, 13, 28, and 29
Group VI (Table VI)	Runs 18 and 11





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 256. KPA (37.2 PSIA), COMB EXIT TEMP=526.8 DEG C (980. DEG F),

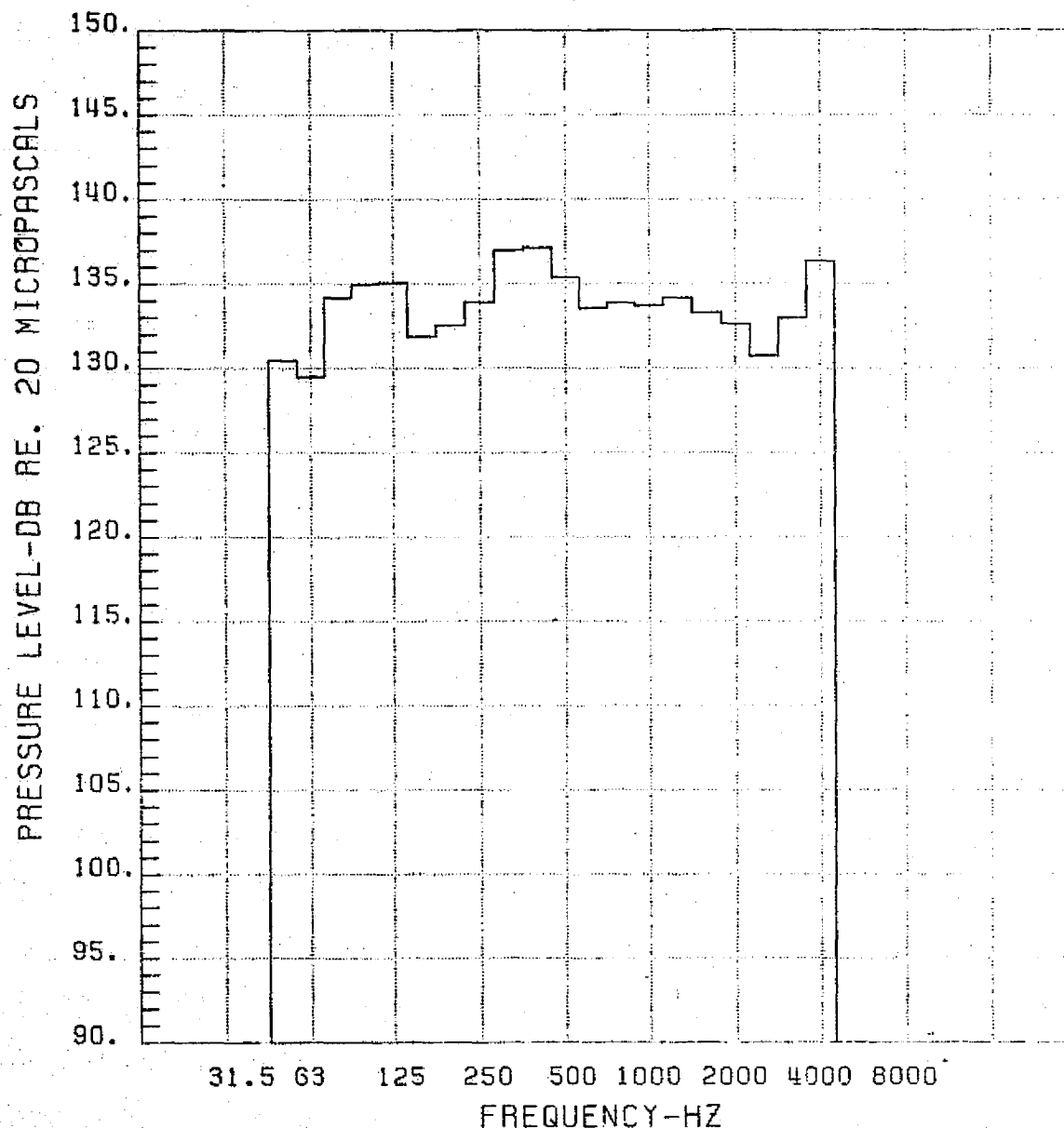
AIR FLOW=4.92 KG/SEC (10.9 #/SEC), FUEL FLOW= 179. KG/HR (395. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: I

RUN NUMBER: 2



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

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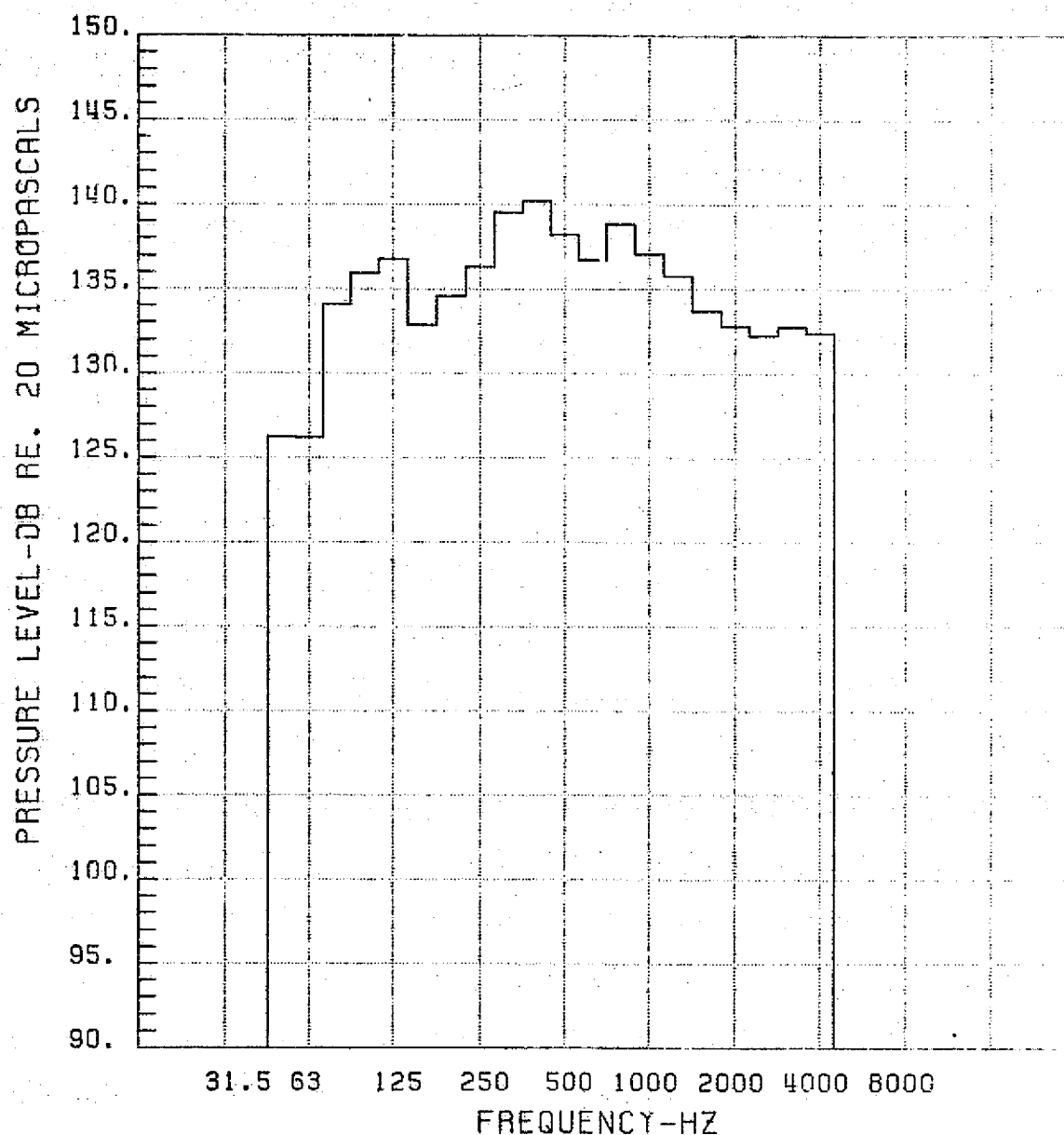
AIR FLOW= 4.92 KG/SEC (10.9 #/SEC), FUEL FLOW= 179. KG/HR (395. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: I

RUN NUMBER: 2



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

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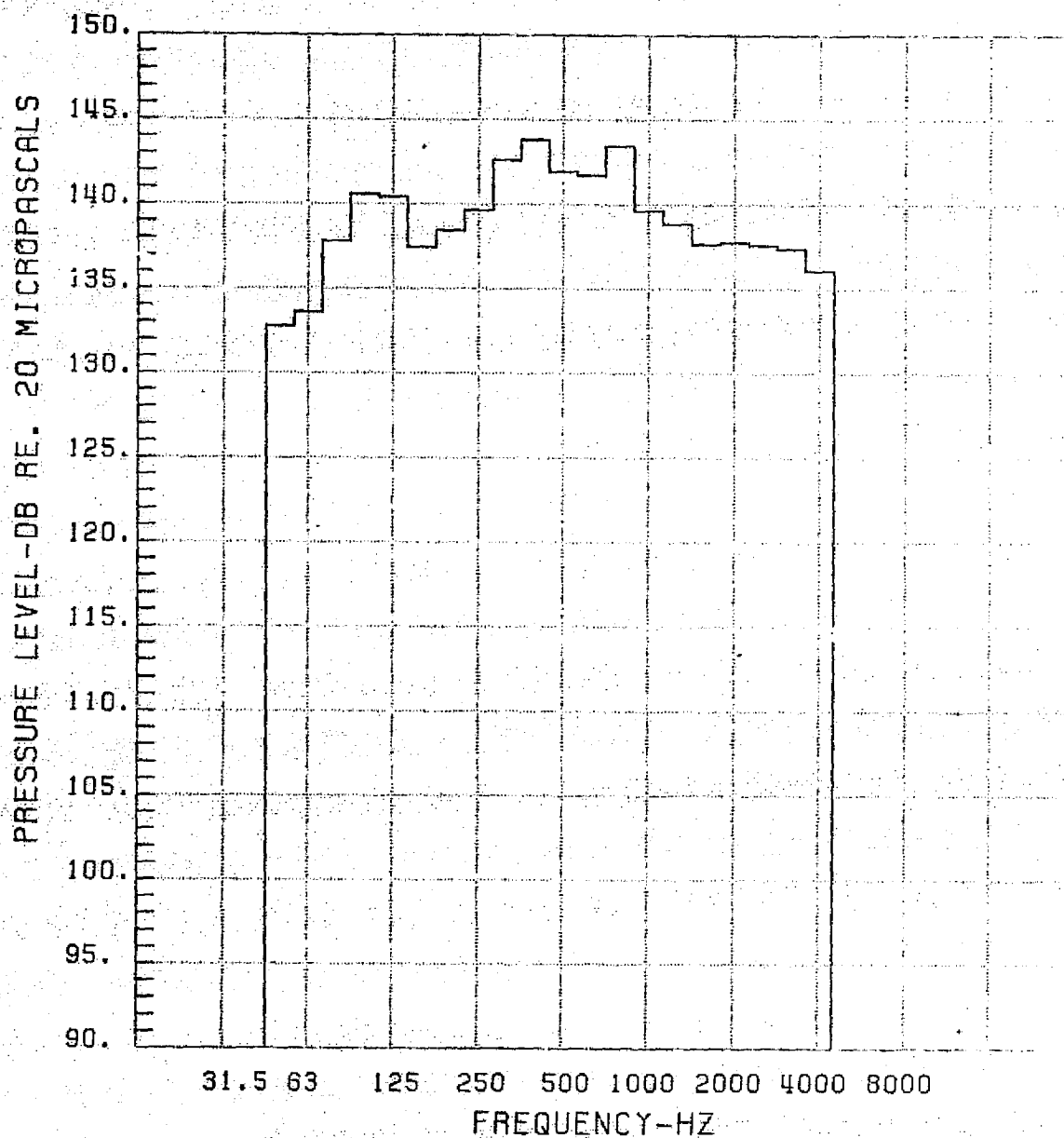
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TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: 1

RUN NUMBER: 2



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 256. KPA (37.2 PSIA), COMB EXIT TEMP=526.8 DEG C (980. DEG F),

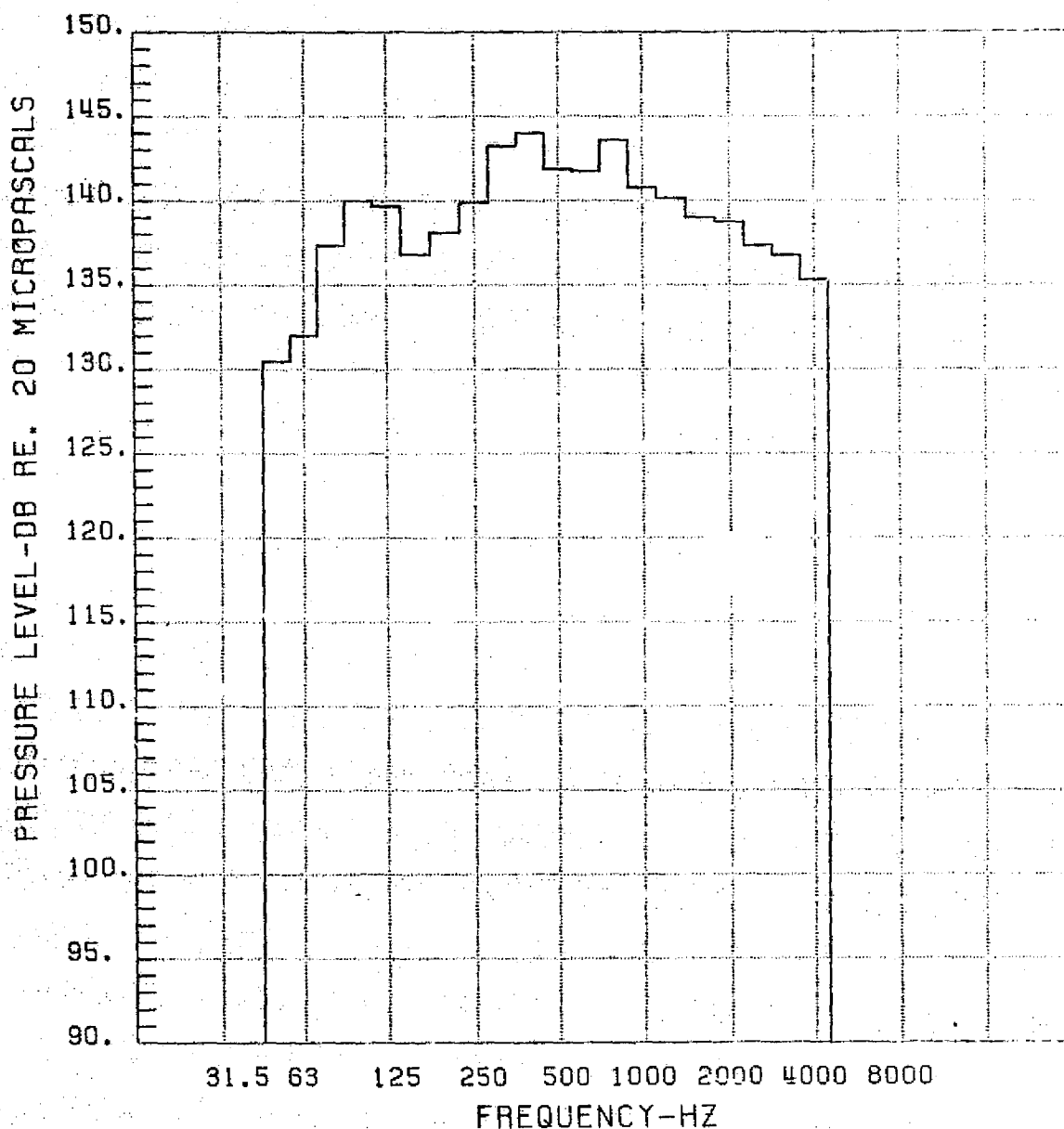
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TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: I

RUN NUMBER: 2



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ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

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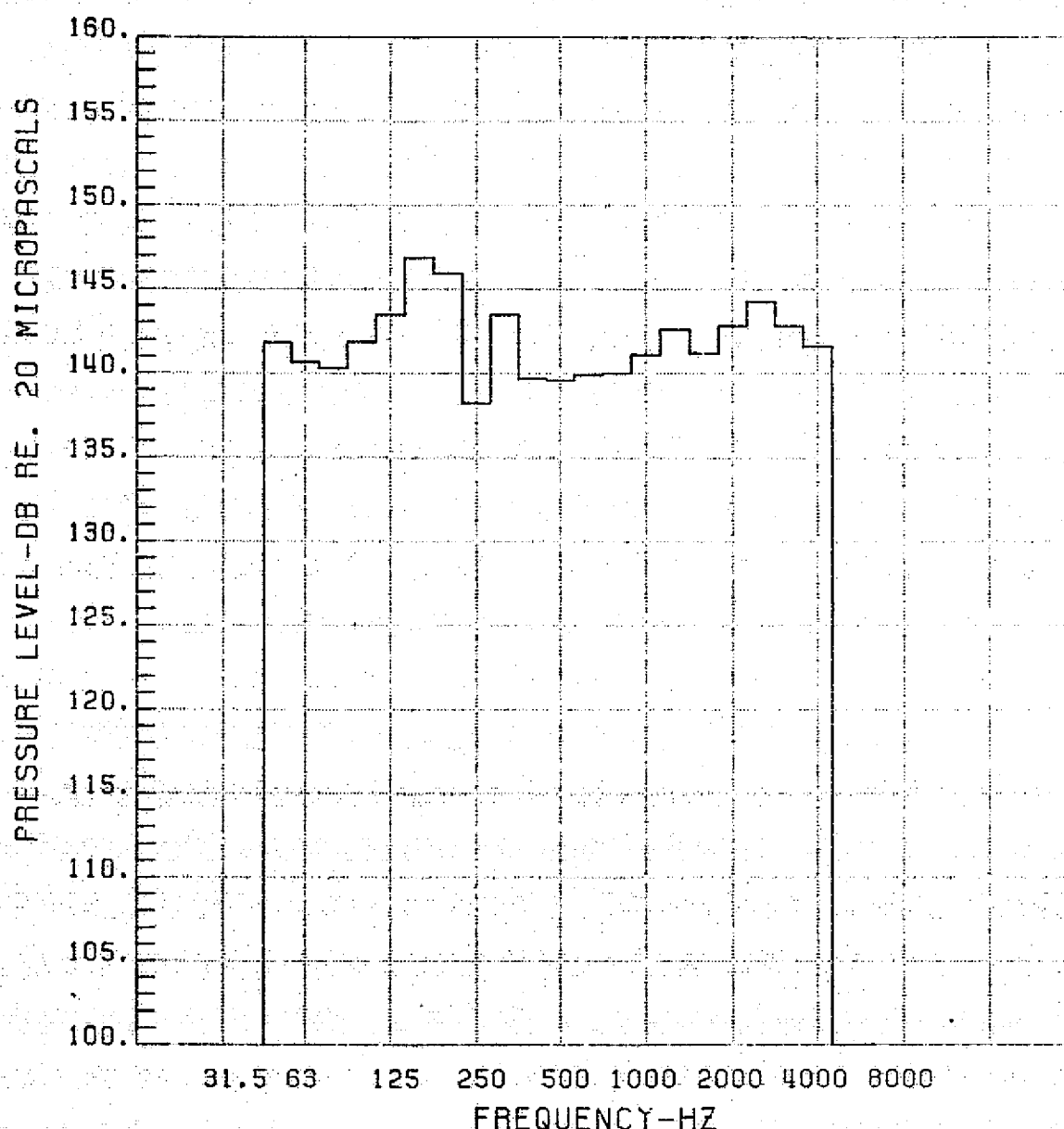
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TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: I

RUN NUMBER: 2



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ONE THIRD OCTAVE BAND ANALYSIS

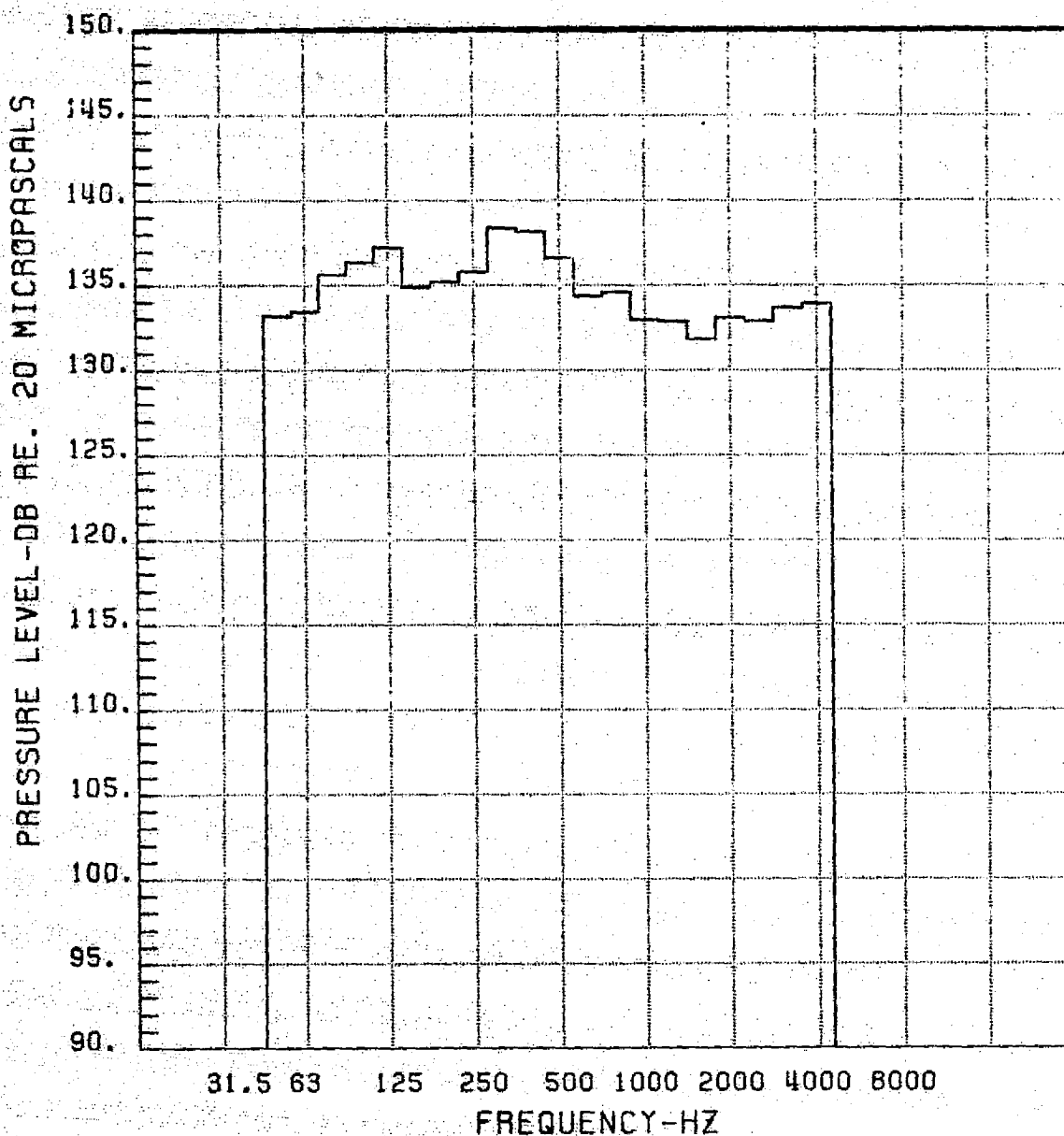
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TEST DATE: 4/19-21/77

PROBE NUMBER: C.

GROUP: I

RUN NUMBER: 2



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 312. KPA (45.3 PSIA), COMB EXIT TEMP=550.4 DEG C (1023. DEG F),

AIR FLOW=5.90 KG/SEC (13.0 \*/SEC), FUEL FLOW= 221. KG/HR (488. \*/HR)

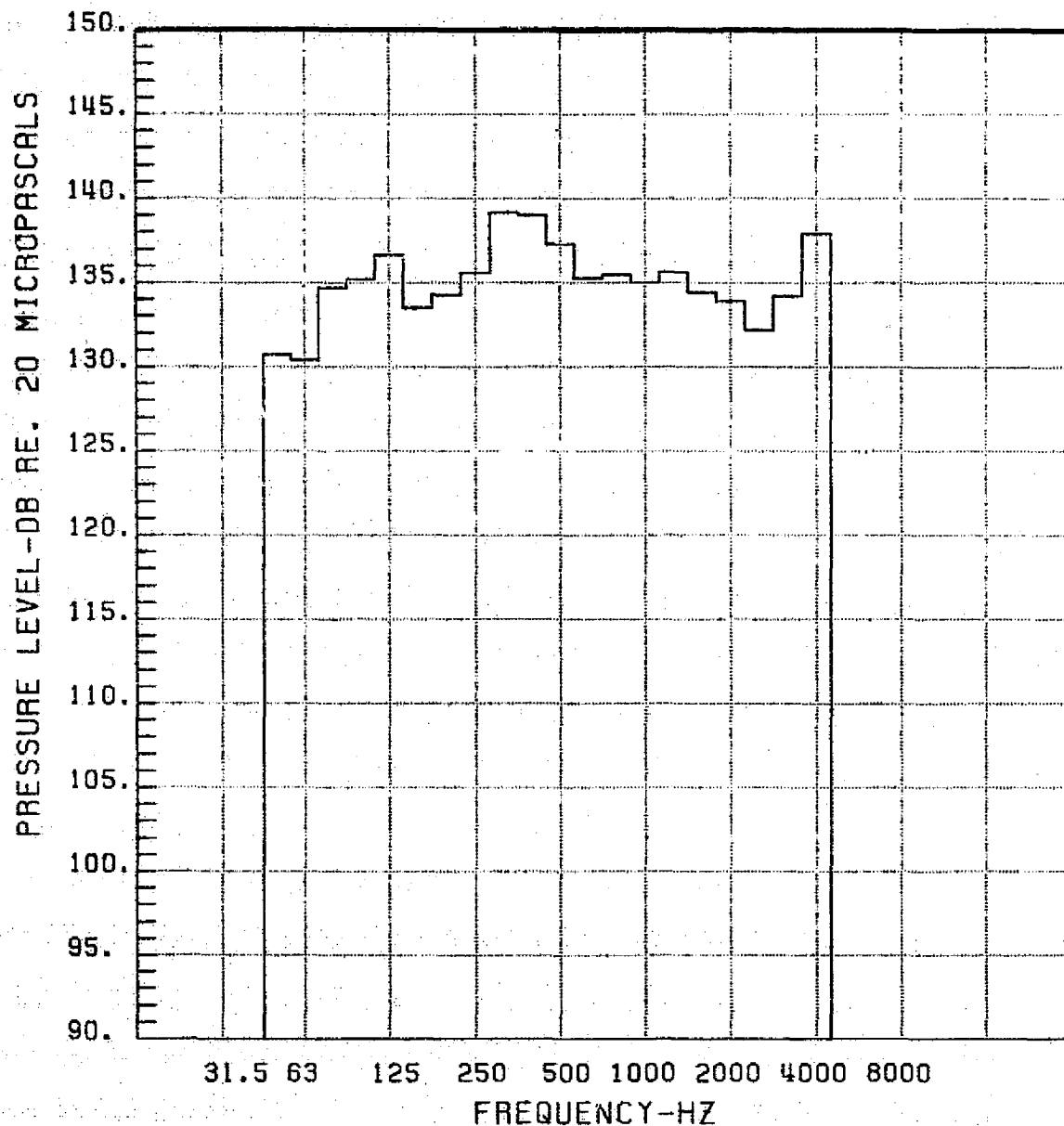
TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: 1

RUN NUMBER: 3.





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 312. KPA (45.3 PSIA), COMB EXIT TEMP= 550.4 DEG C (1023. DEG F).

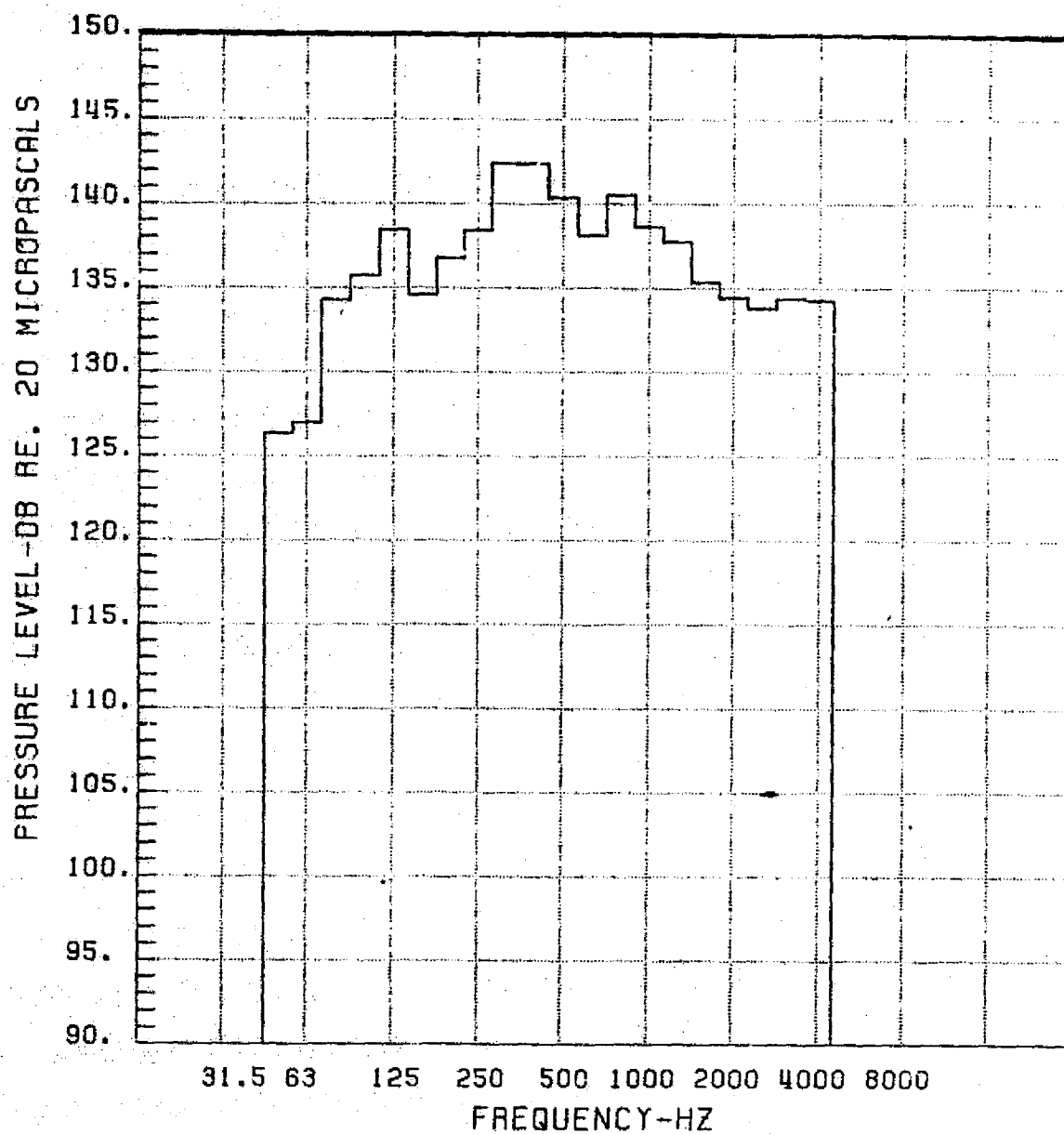
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TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: I

RUN NUMBER: 3



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 312. KPA (45.3 PSIA), COMB EXIT TEMP=550.4 DEG C (1023. DEG F),

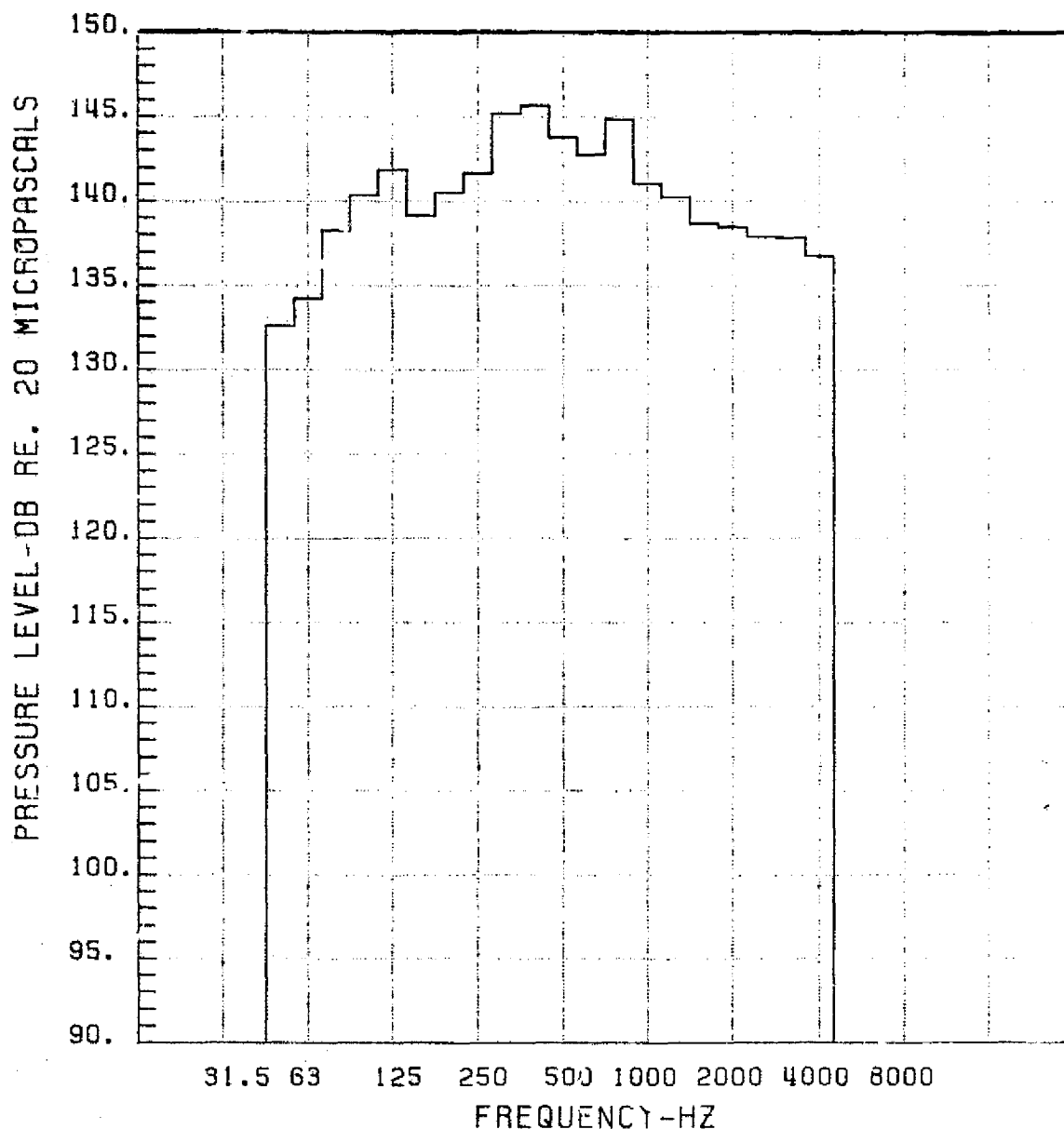
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TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: 1

RUN NUMBER: 3



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 312. KPA (45.3 PSIA), COMB EXIT TEMP=550.4 DEG C (1023. DEG F),

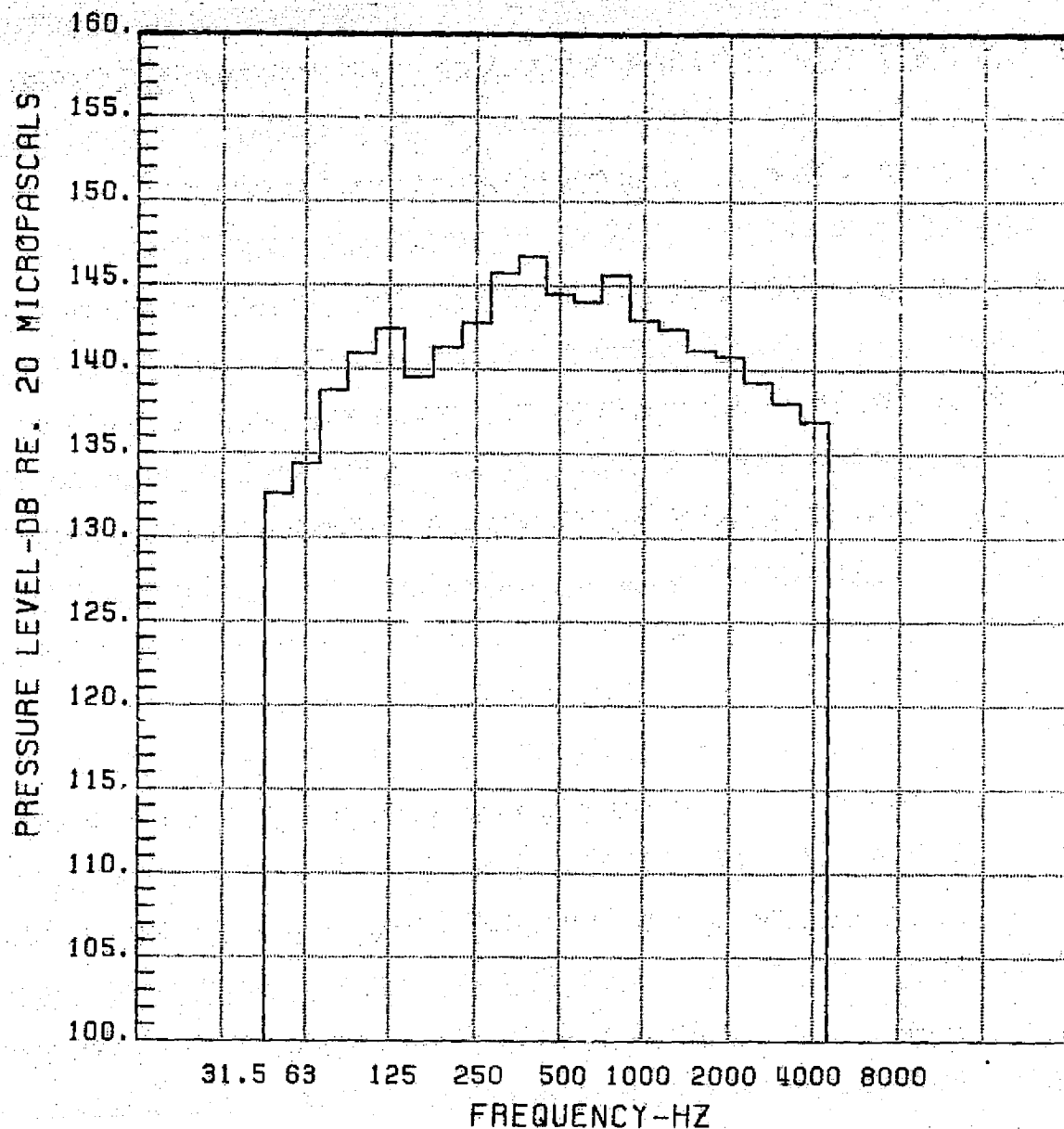
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TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: I

RUN NUMBER: 3



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

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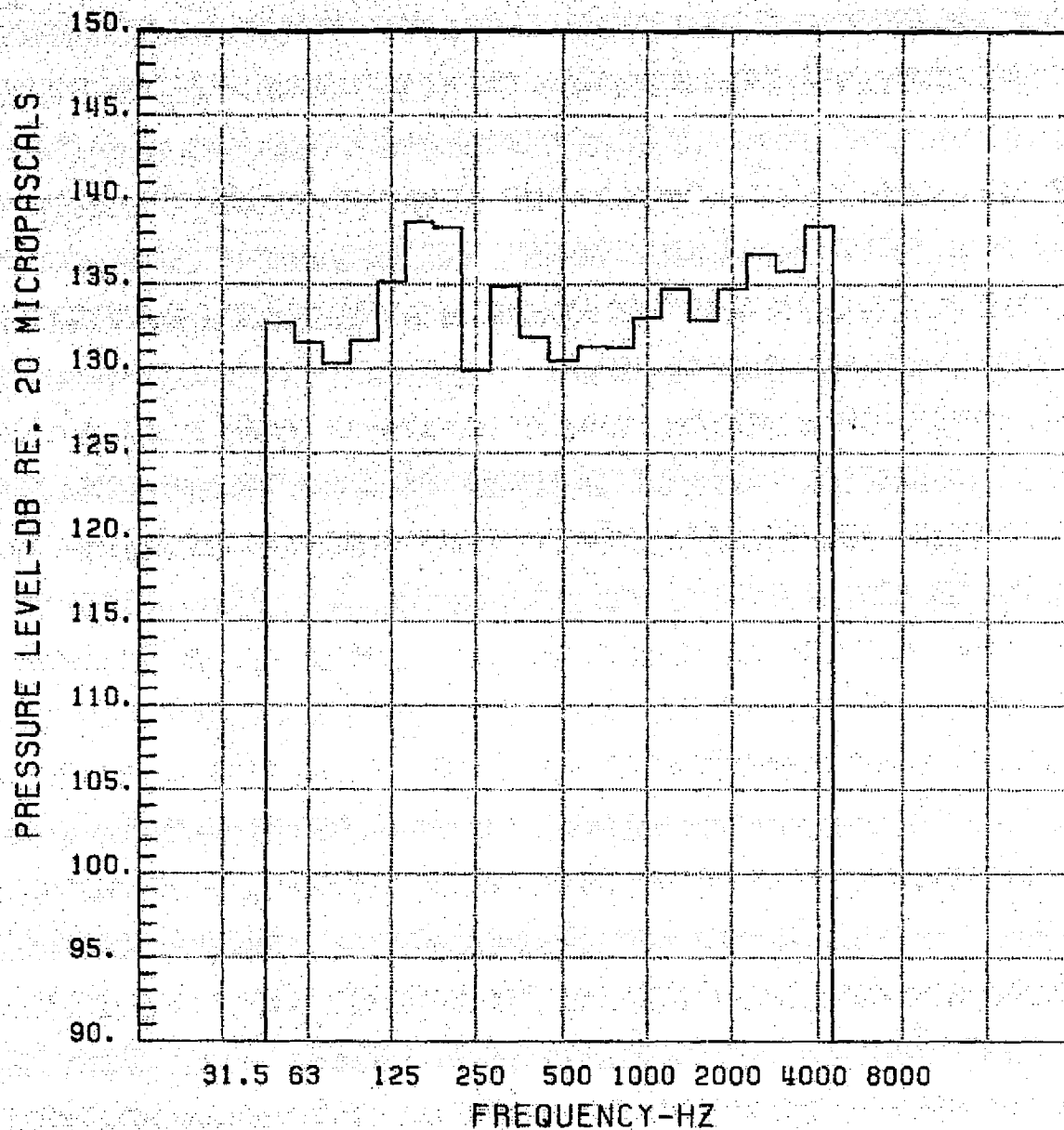
AIR FLOW=5.90 KG/SEC (13.0 #/SEC), FUEL FLOW= 221. KG/HR (488. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: I

RUN NUMBER: 3



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 312. KPA (45.3PSIA), COMB EXIT TEMP=550.4 DEG C (1023. DEG F).

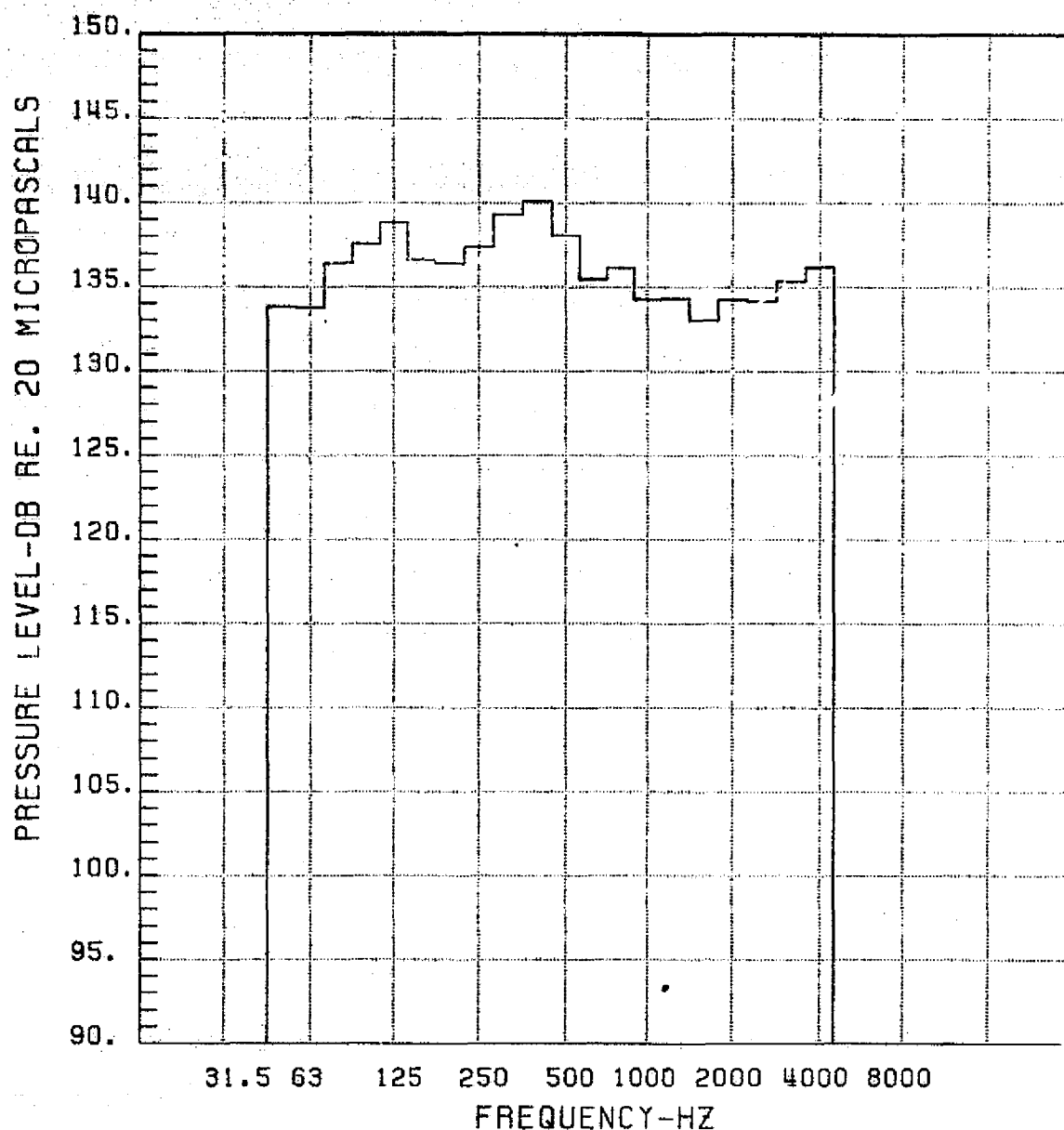
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TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: I

RUN NUMBER: 3



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

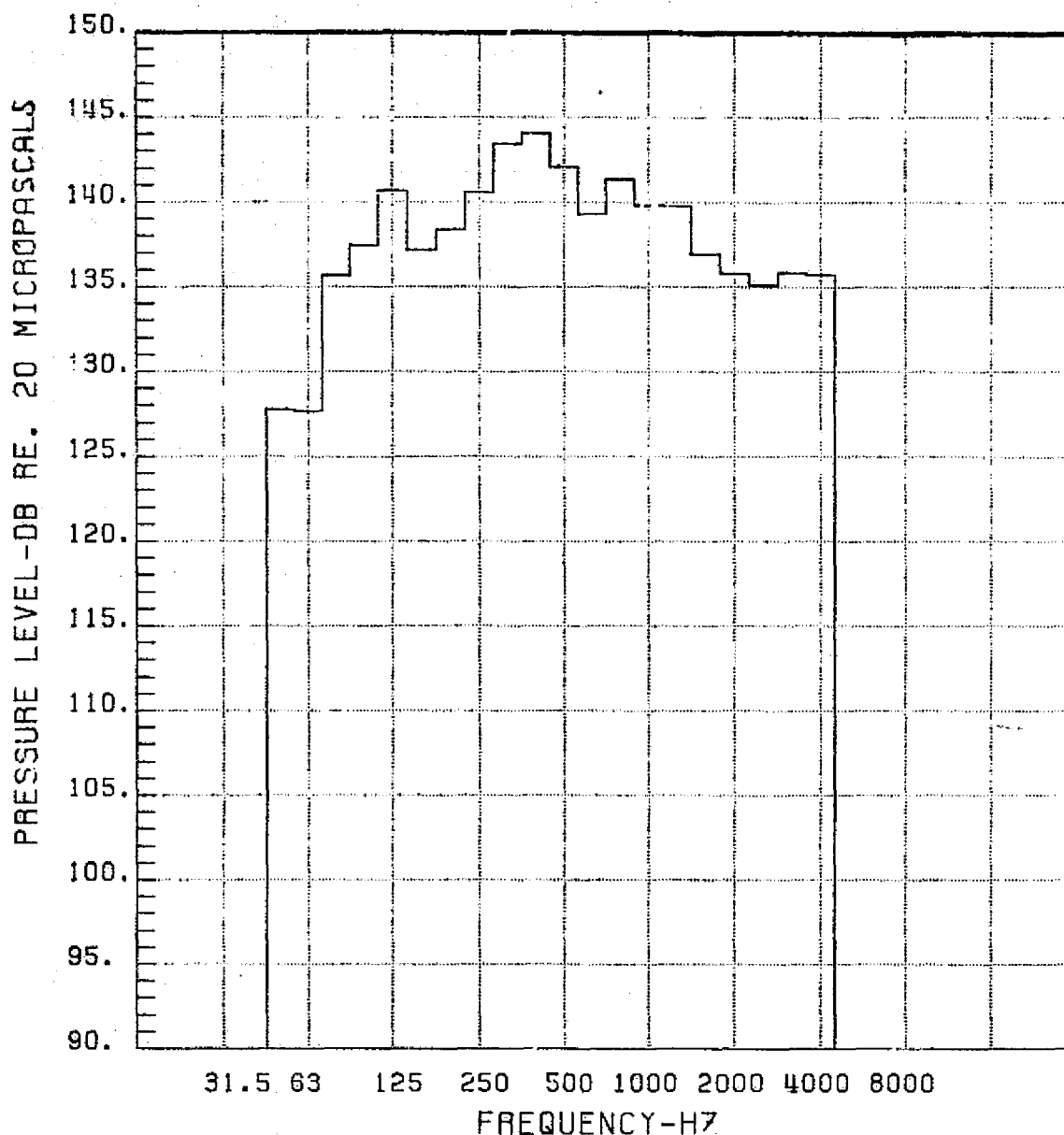
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AIR FLOW=6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR ( 575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: I

RUN NUMBER: 6A



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=600.5 DEG C (1113. DEG F),

AIR FLOW=6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR ( 575. #/HR)

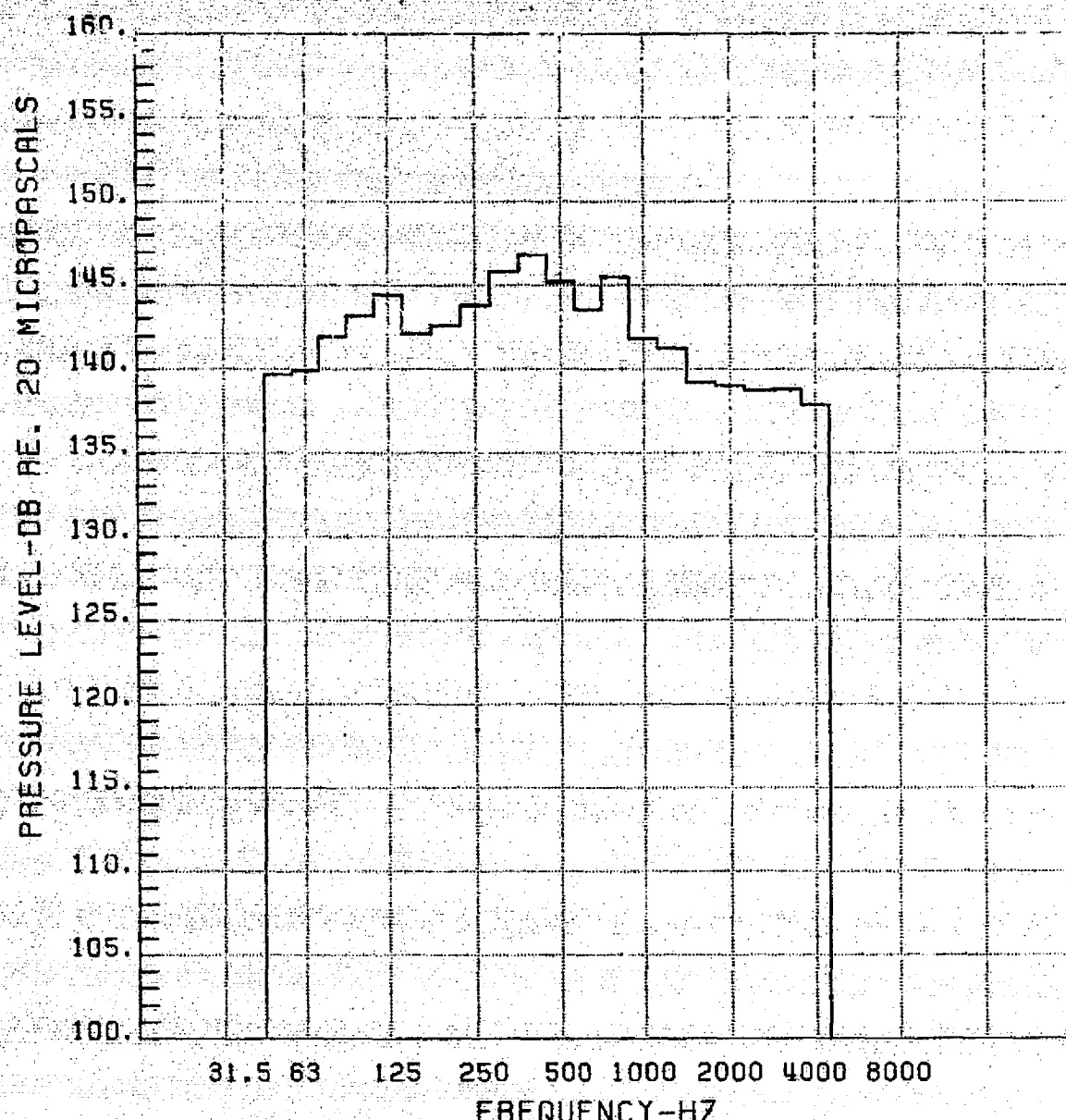
TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: I

RUN NUMBER: 6A





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=600.5 DEG C (1113. DEG F),

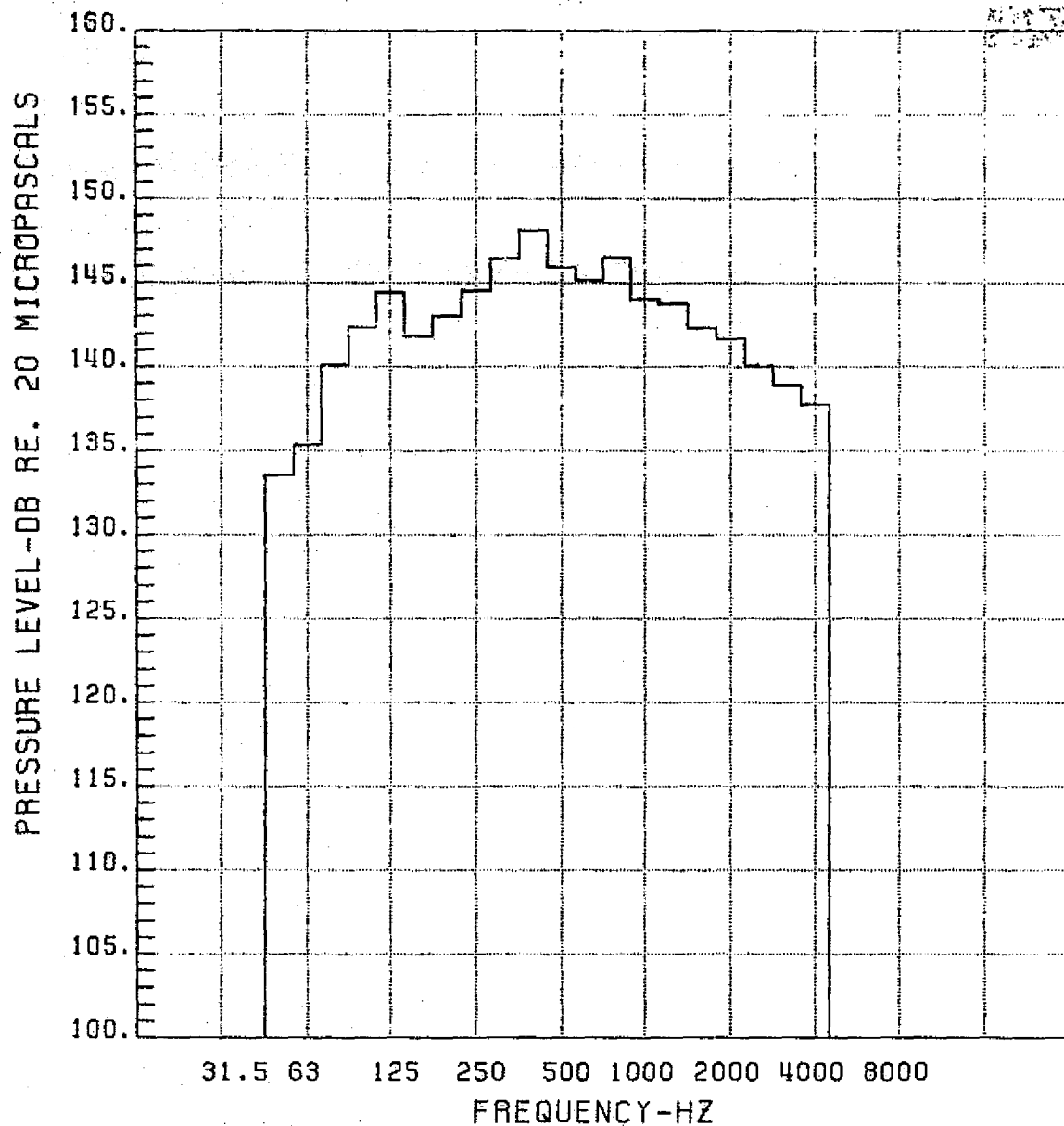
AIR FLOW=6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: 1

RUN NUMBER: GA



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

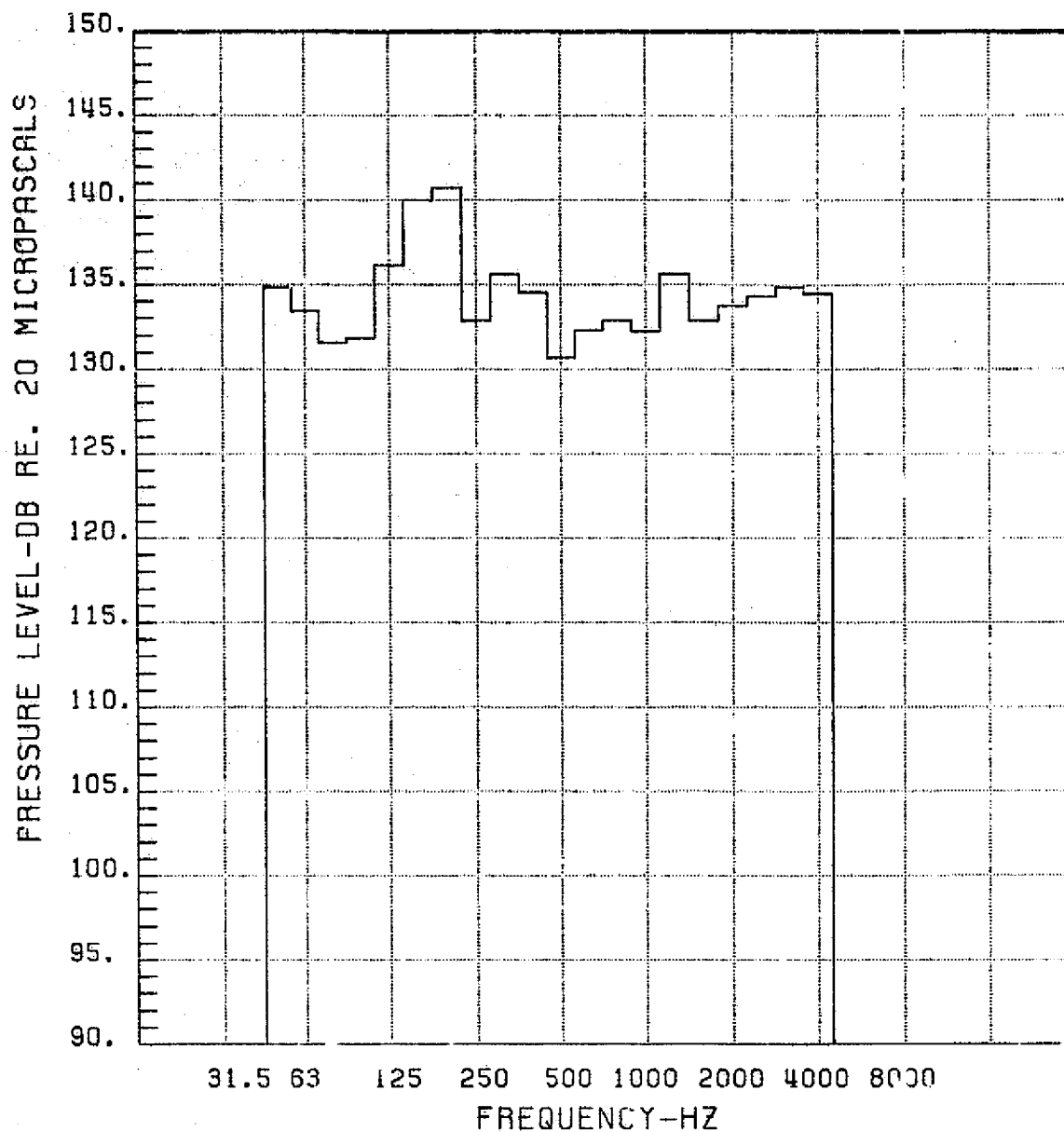
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AIR FLOW= 6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: I

RUN NUMBER: 3A



AVCO-LYCOMING DIVISION  
530 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=600.5 DEG C (1113. DEG F),

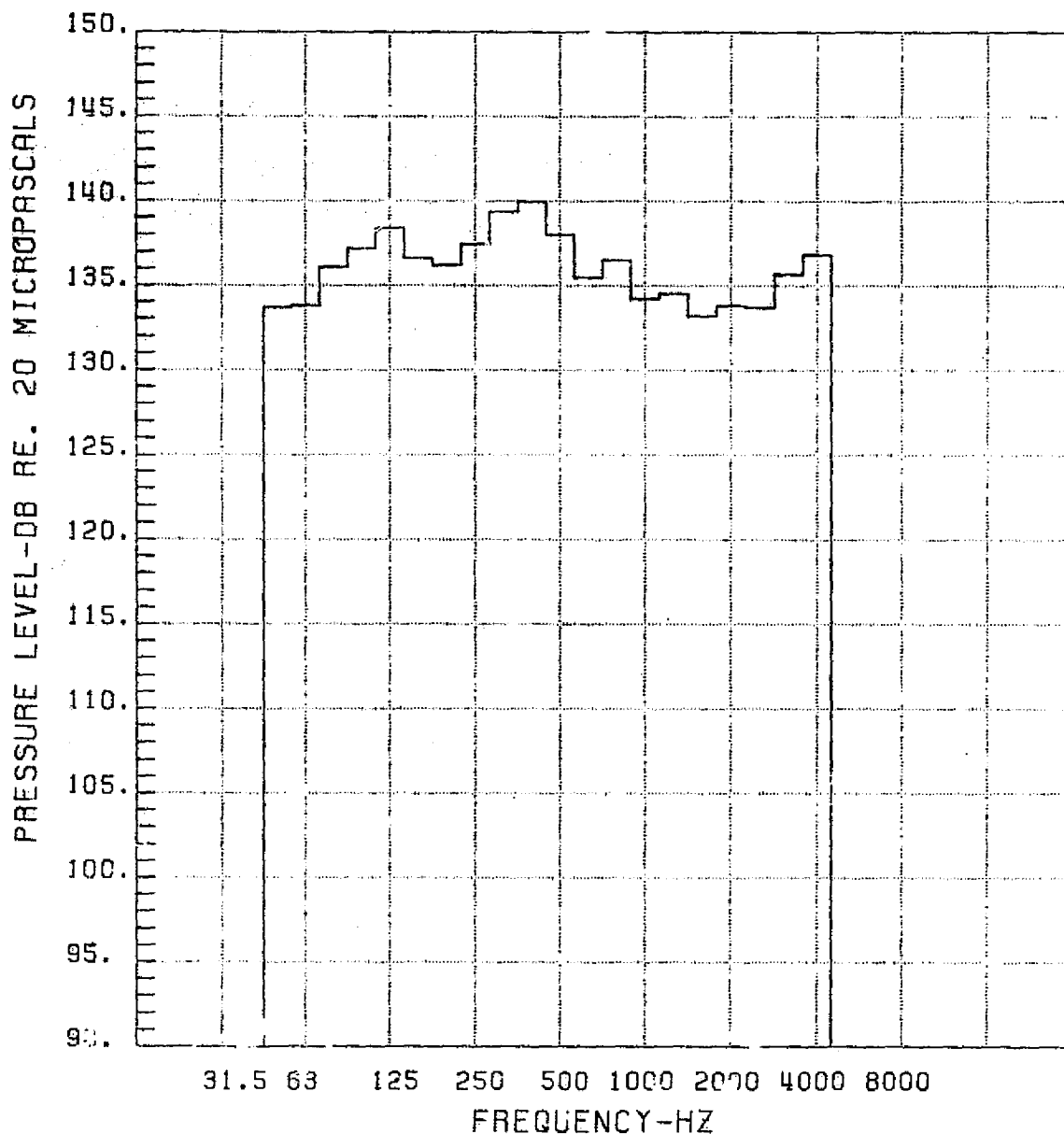
AIR FLOW=6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: I

RUN NUMBER: 6A



RVCO-LYCOMING DIVISION  
 350 SOUTH MAIN ST., STRATFORD, CONN. 06427  
 ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

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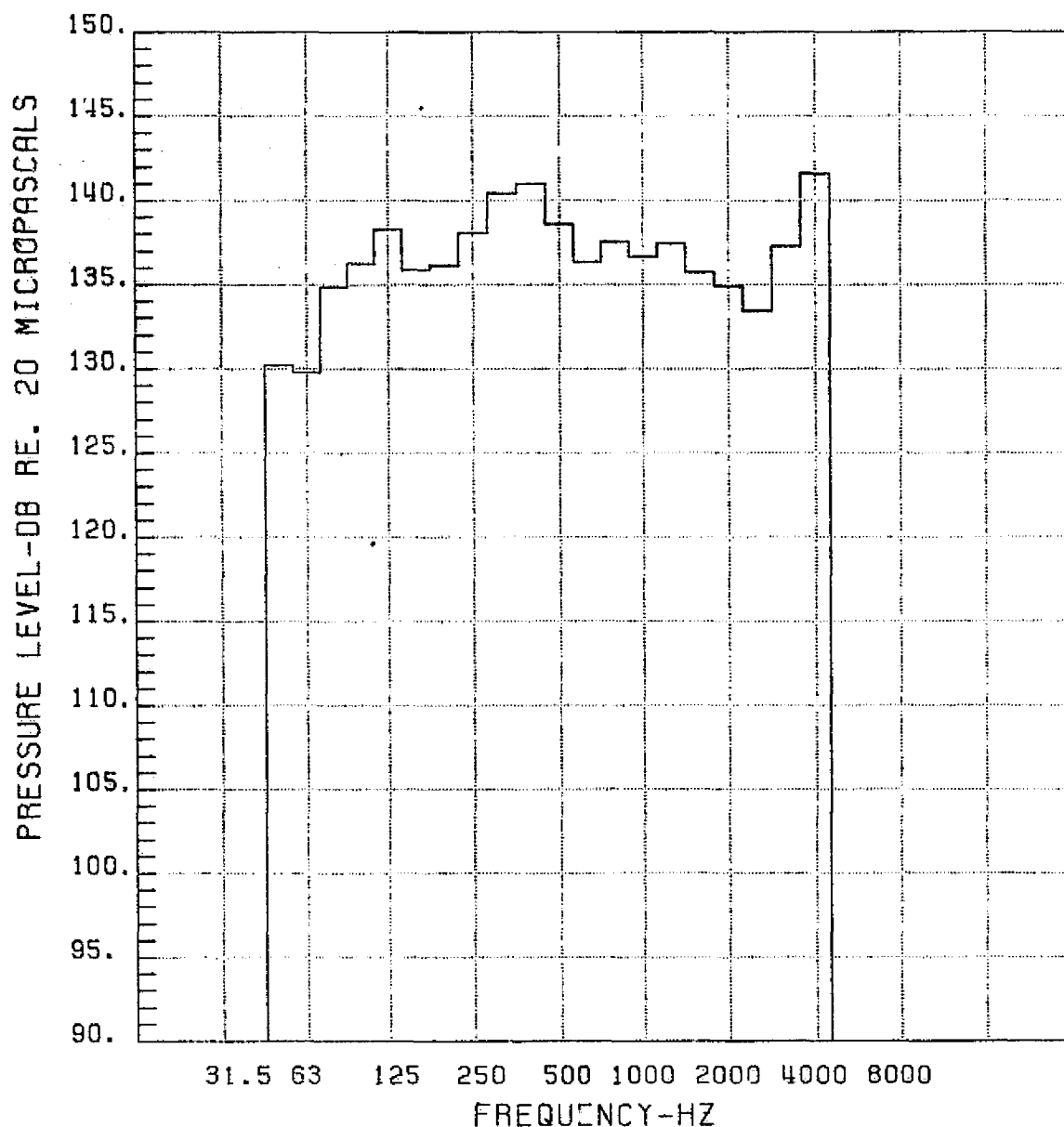
AIR FLOW= 6.40 KG/SEC (14.1 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1-

GROUP: I

RUN NUMBER: 6B



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

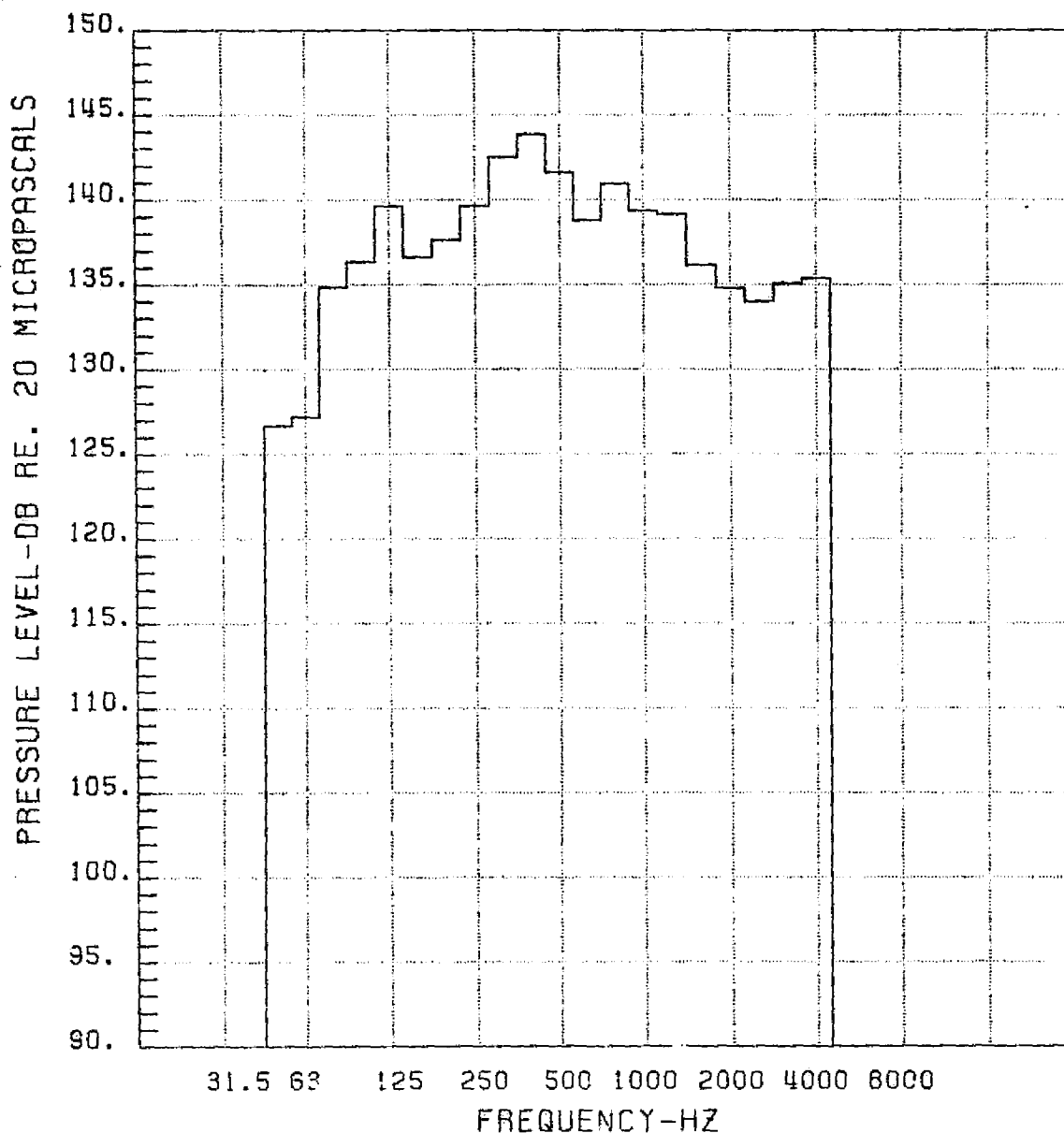
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TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

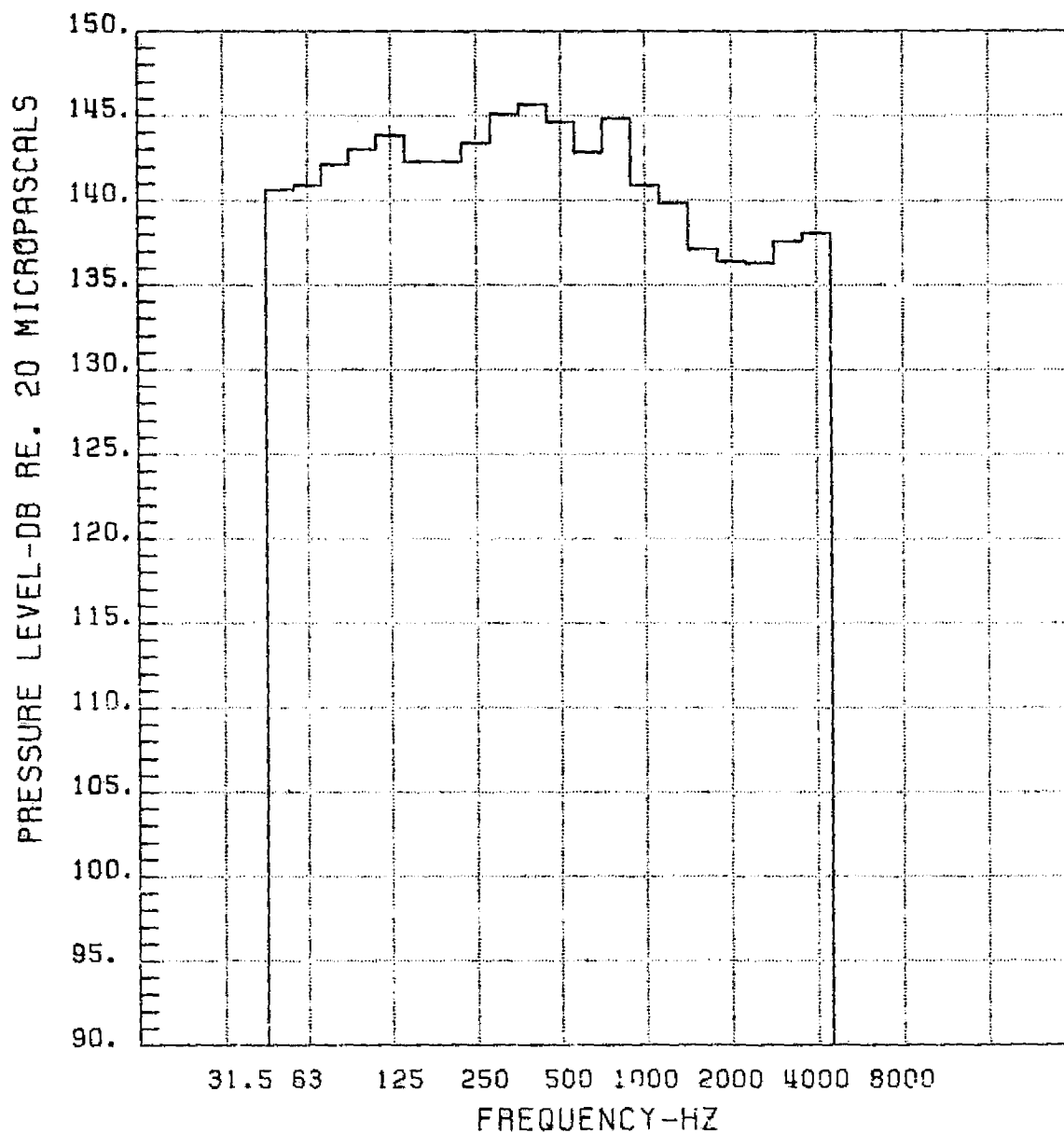
GROUP: I

RUN NUMBER: 68



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

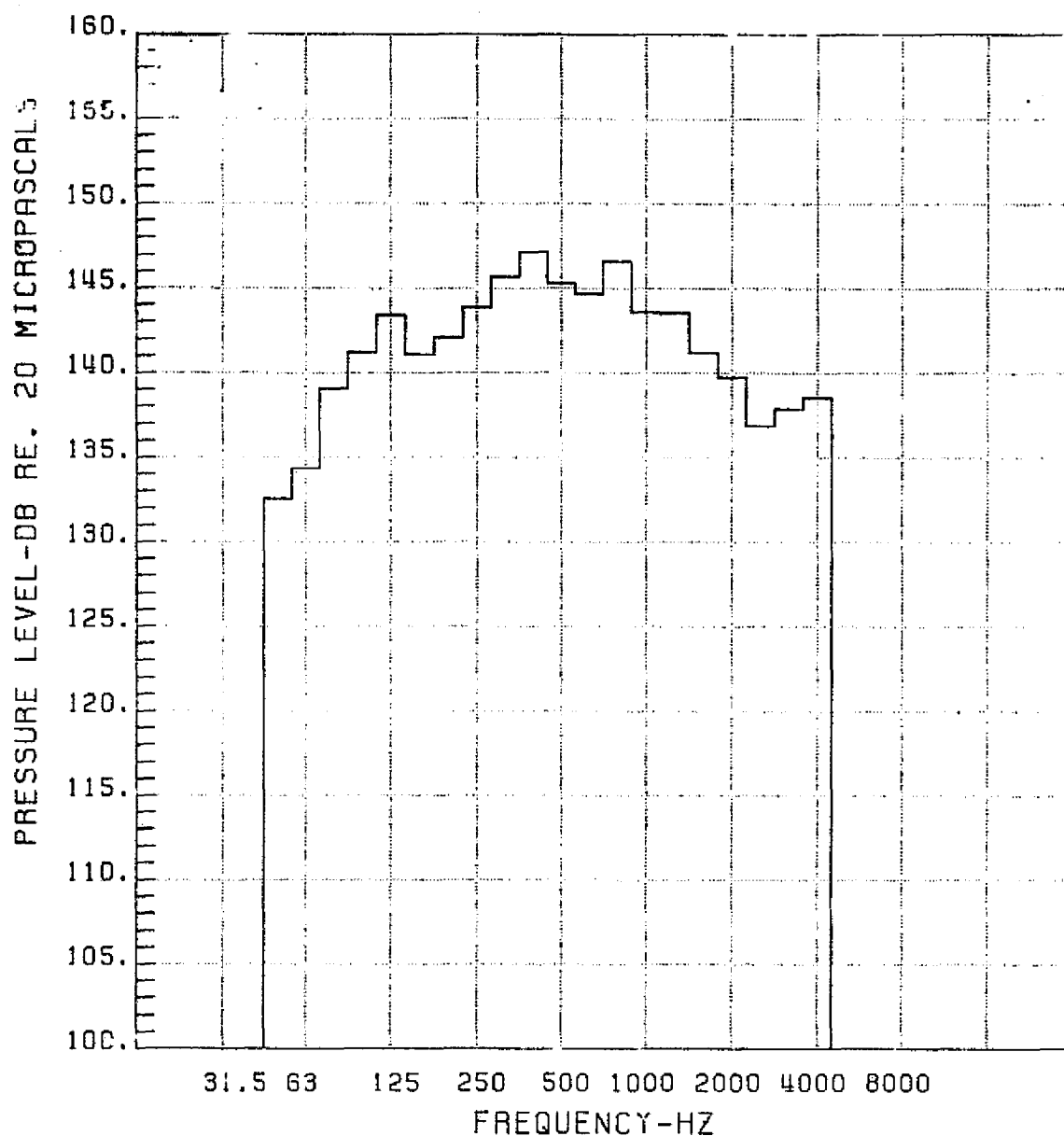
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AIR FLOW=6.40 KG/SEC (14.1 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 3. GROUP: I RUN NUMBER: 68



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP=616.7 DEG C (1146. DEG F),  
AIR FLOW=6.40 KG/SEC (14.1 #/SEC), FUEL FLOW= 261. KG/HR (575 #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: I RUN NUMBER: 68





AVCO LYCOMING DIVISION  
500 SOUTH MAIN ST., STRATFORD, CONN. 06407  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

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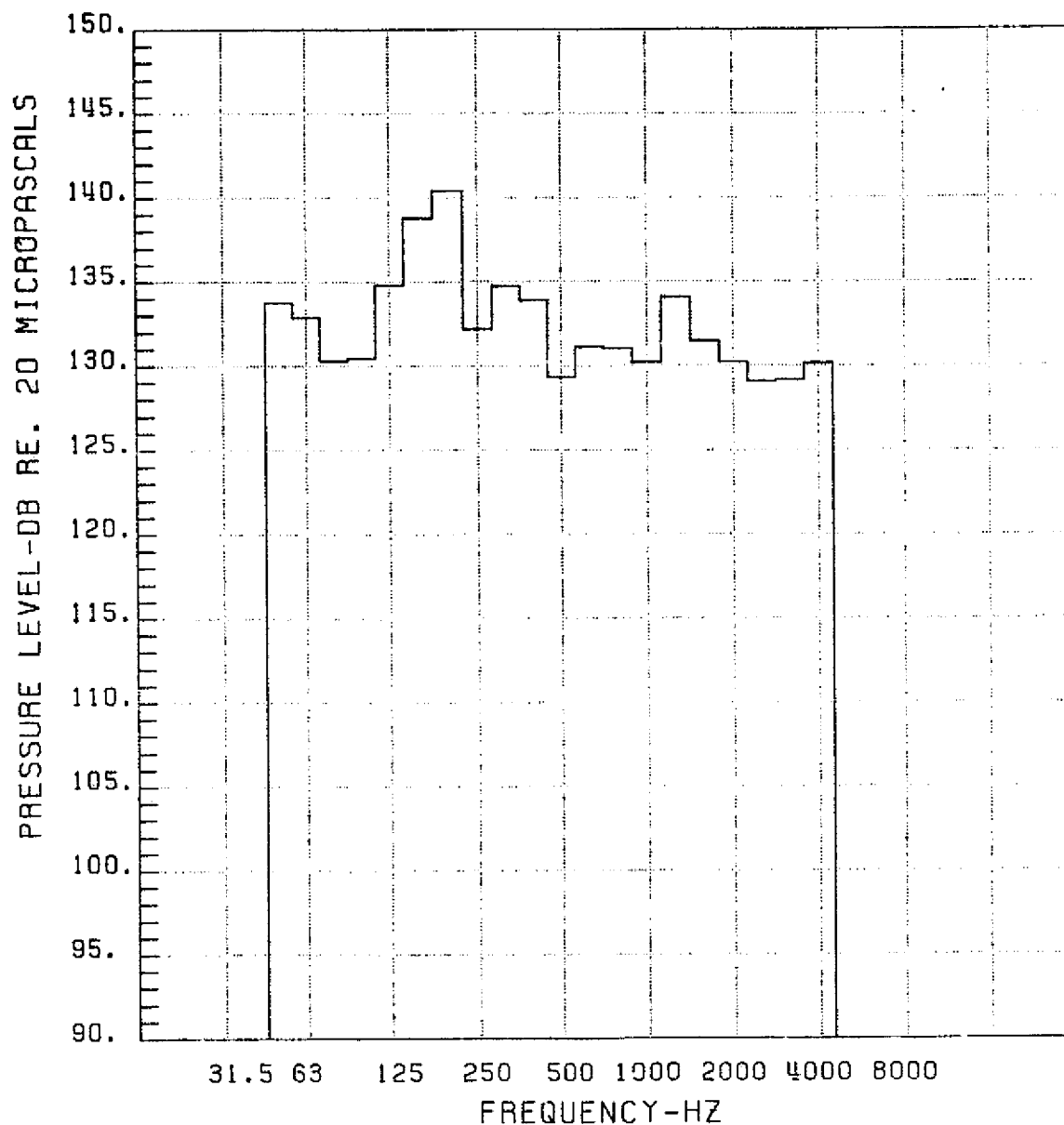
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TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

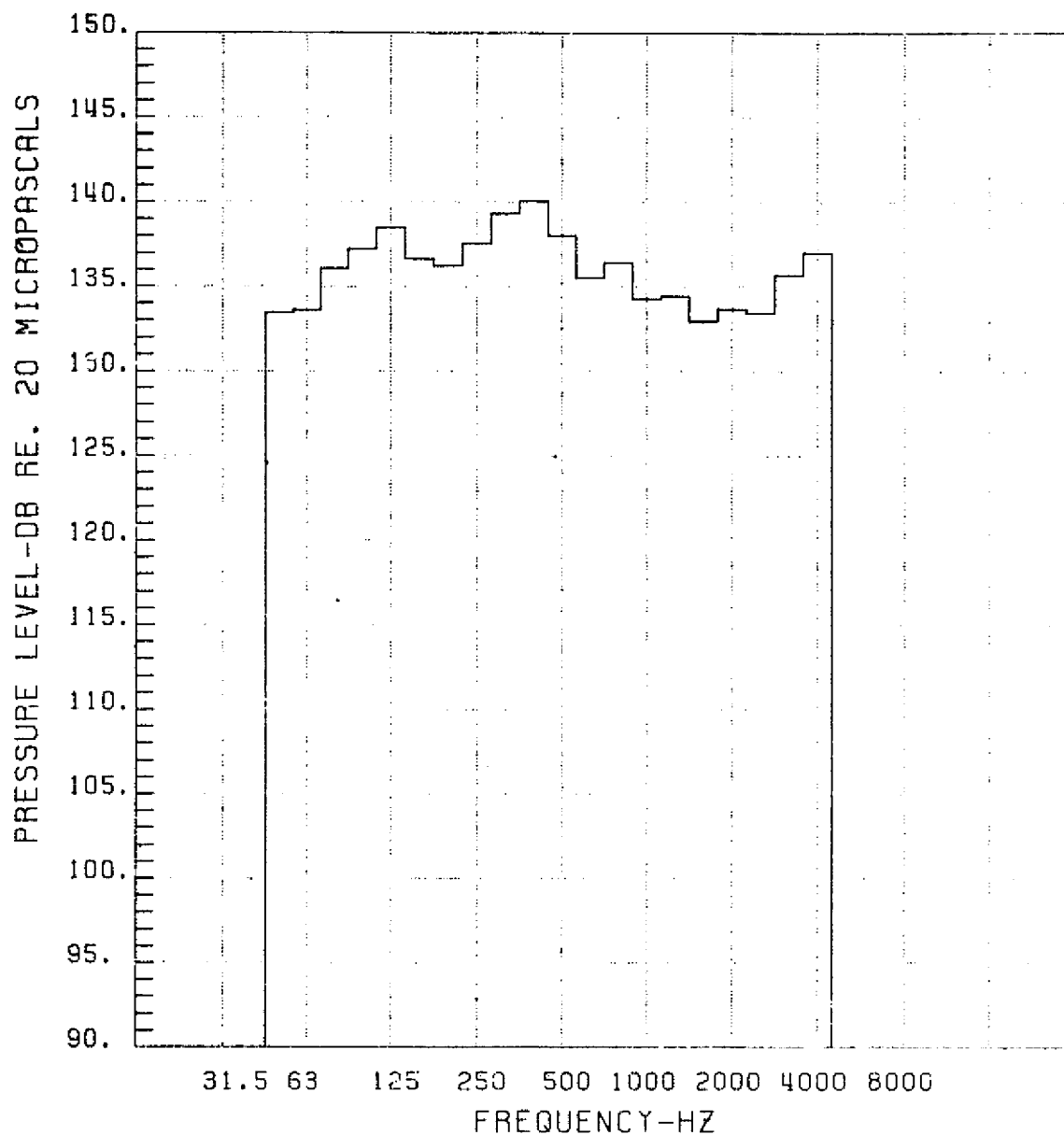
GROUP: I

RUN NUMBER: 68



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP=618.7 DEG C (1146. DEG F),  
AIR FLOW=6.40 KG/SEC (14.1 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 6 GROUP: I RUN NUMBER: 6B

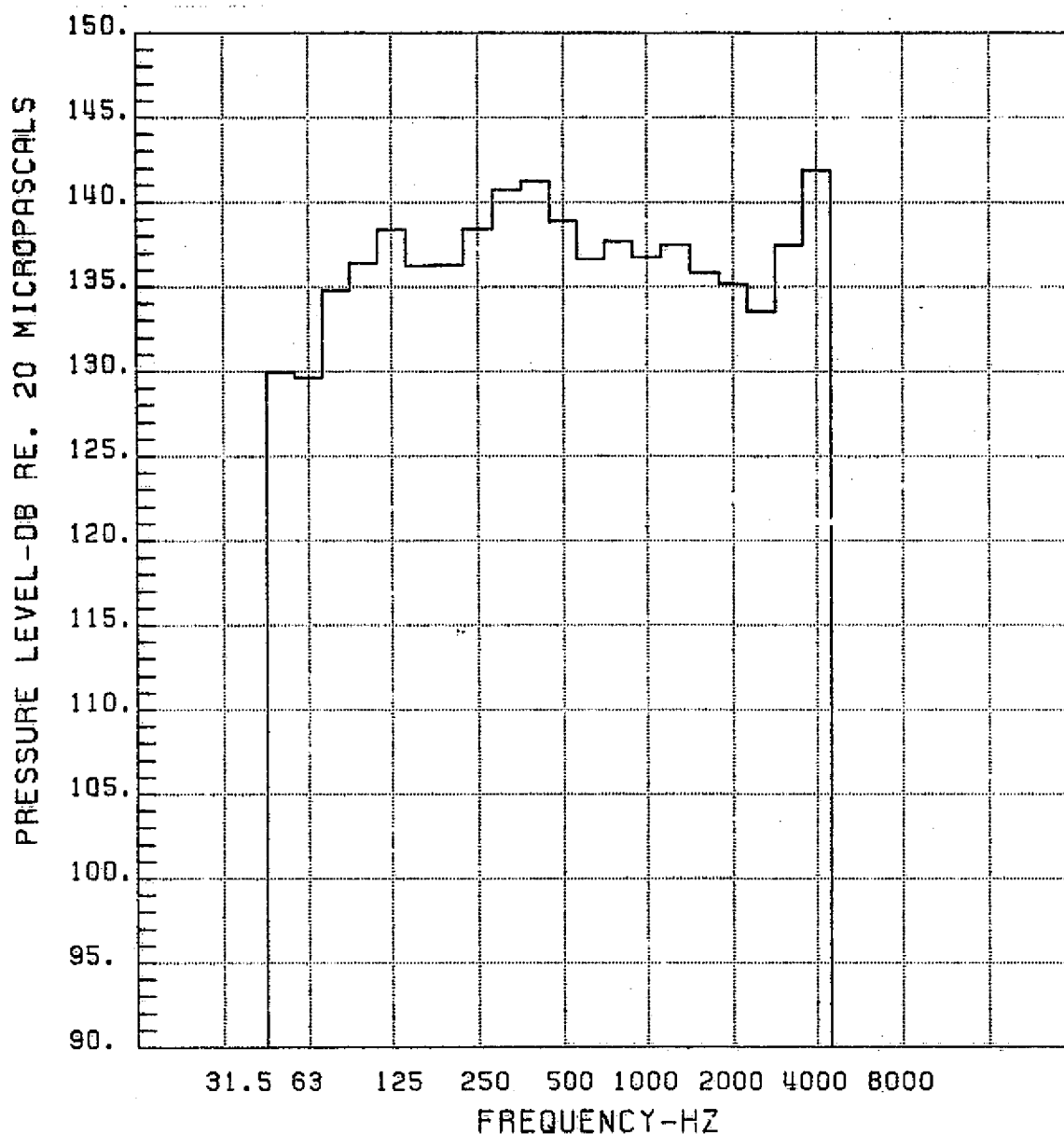


AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06197  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=600.8 DEG C (1113. DEG F),  
AIR FLOW=6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1. GROUP: I RUN NUMBER: 6C



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

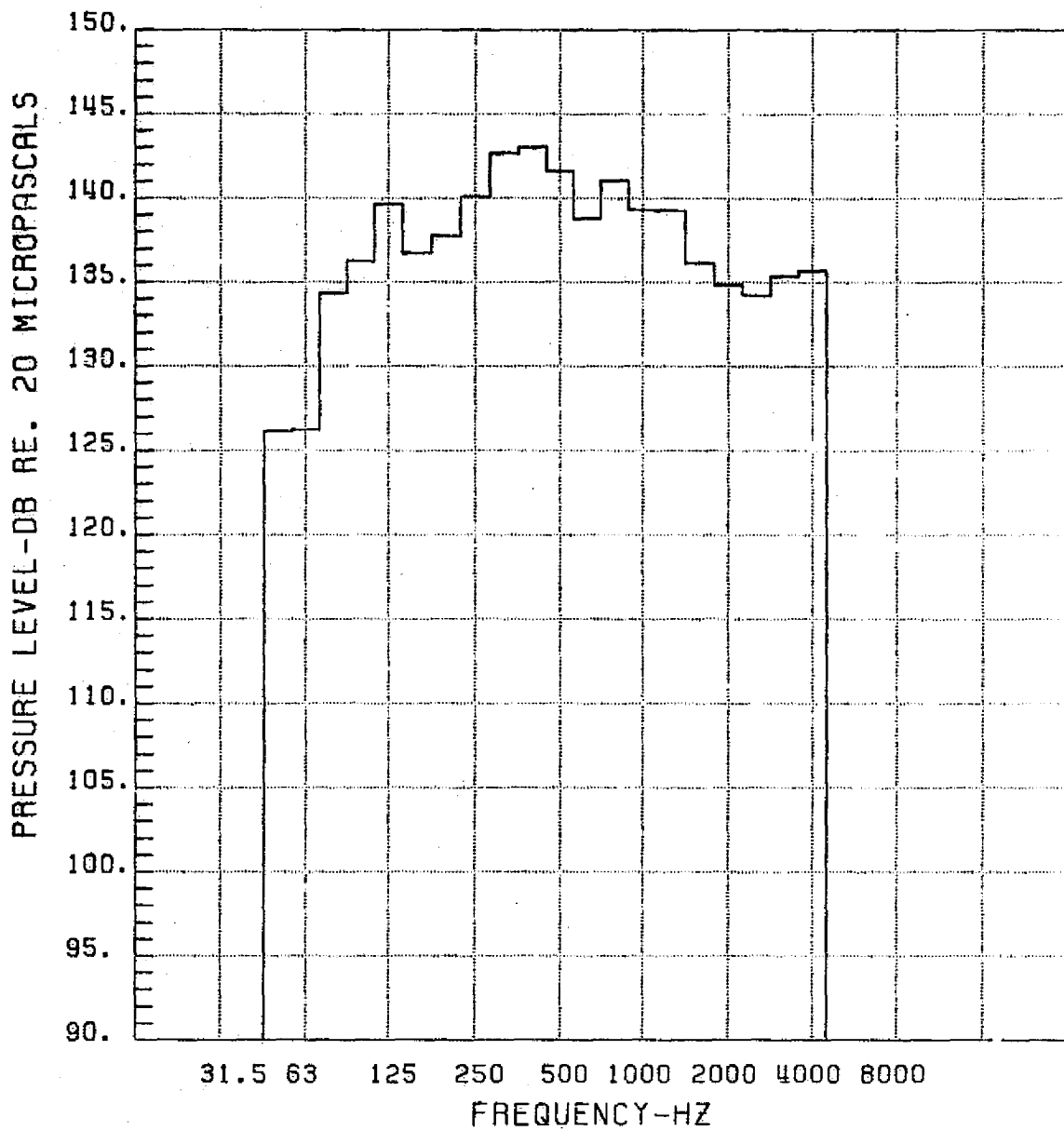
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TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

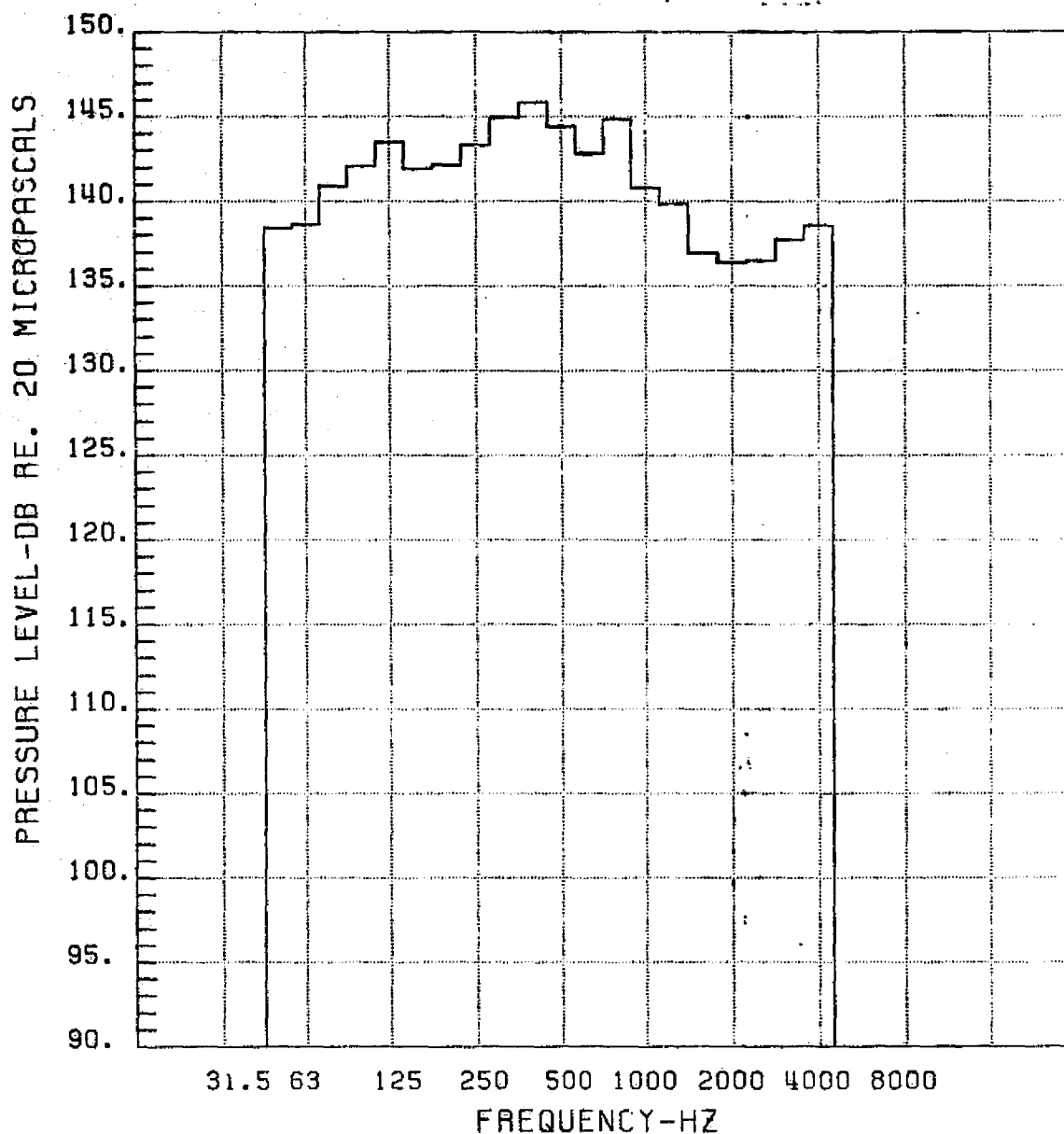
GROUP: I

RUN NUMBER: 6C



## ONE THIRD OCTAVE BAND ANALYSIS

RUN NUMBER: 6C



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

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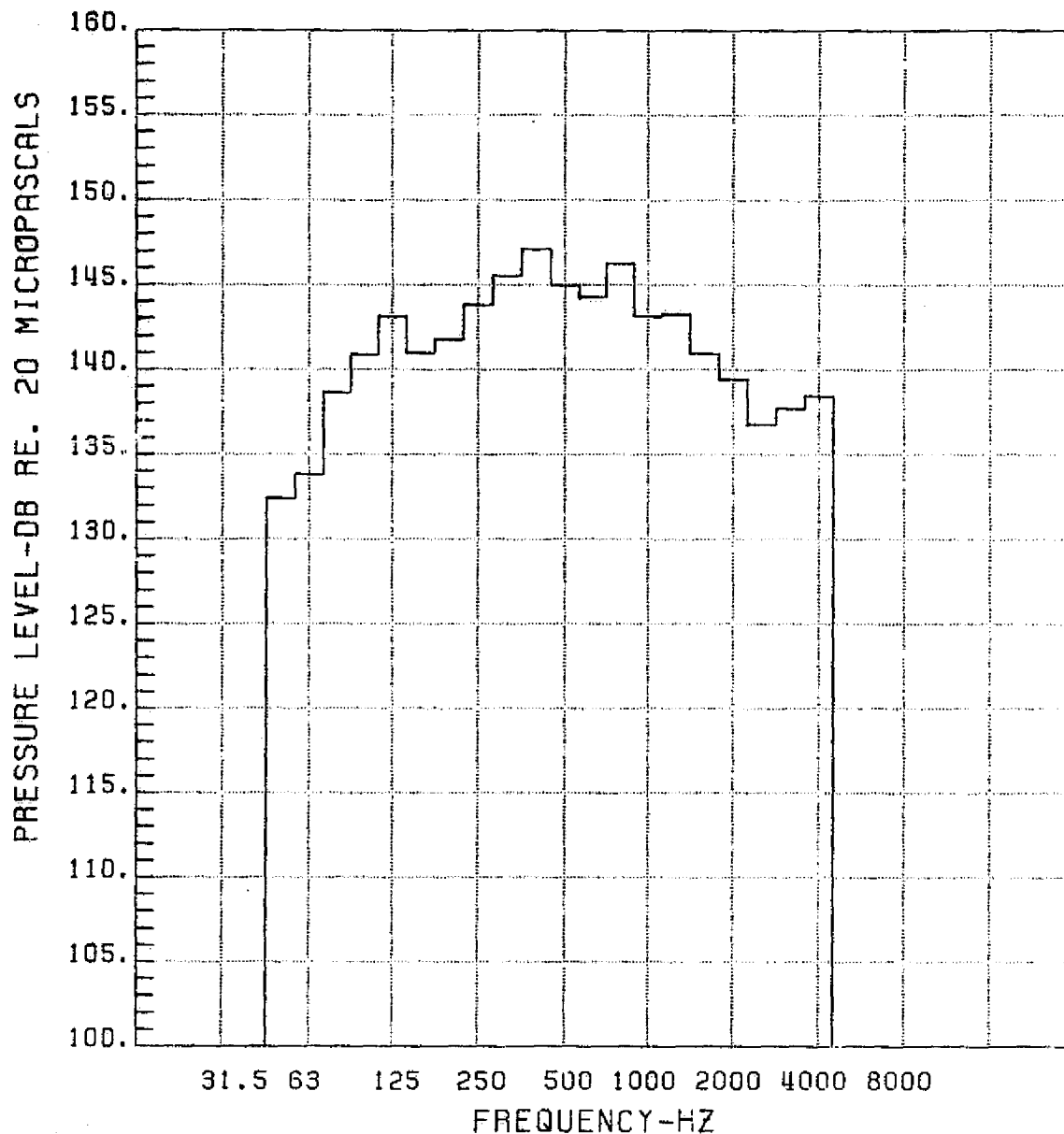
AIR FLOW= 6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: 1

RUN NUMBER: 6C



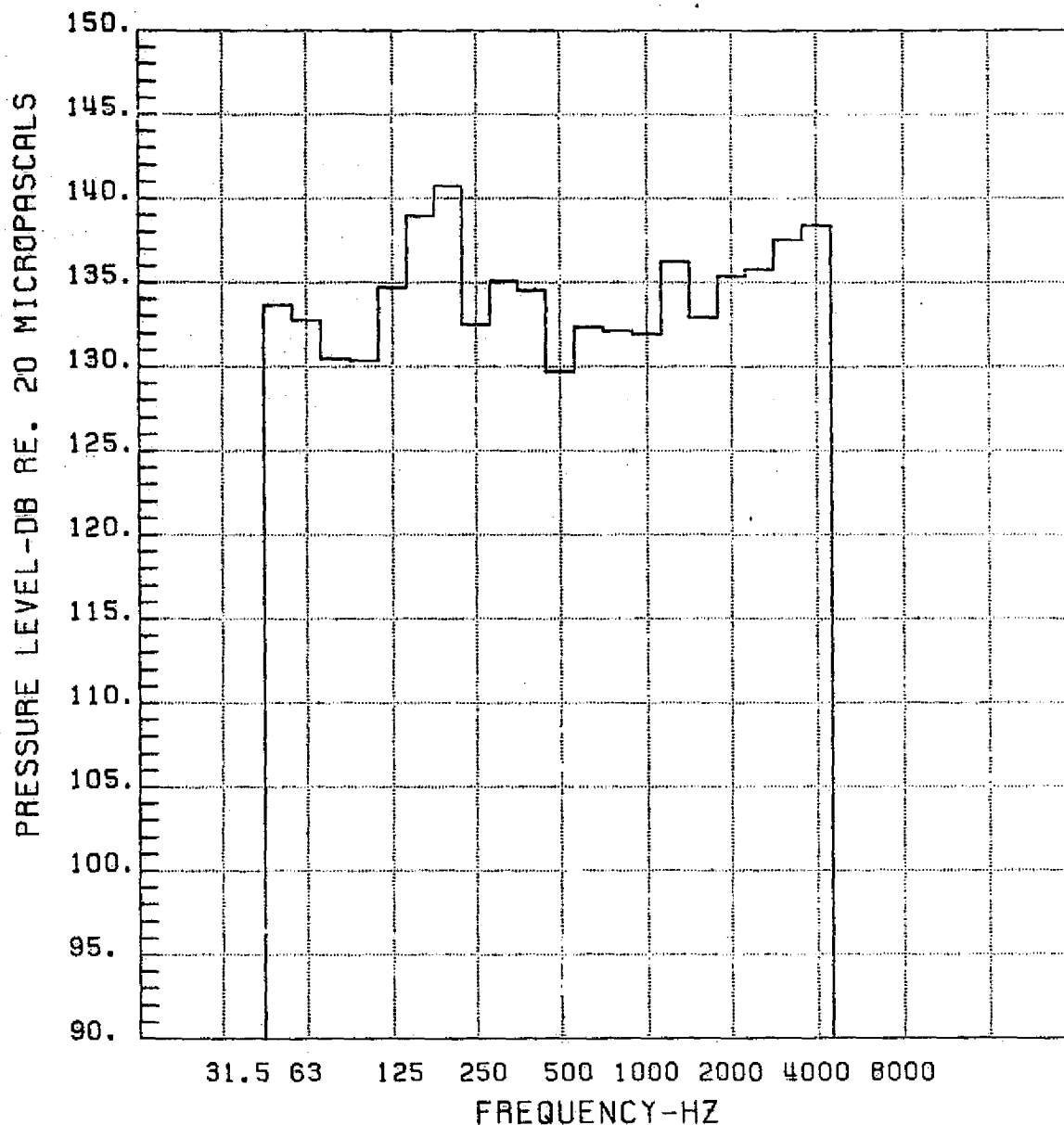
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=600.8 DEG C (1113. DEG F),  
AIR FLOW=6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5. GROUP: I RUN NUMBER: 6C





AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 374. KPA (54.3PSIA), COMB EXIT TEMP=600.8 DEG C (1113. DEG F),

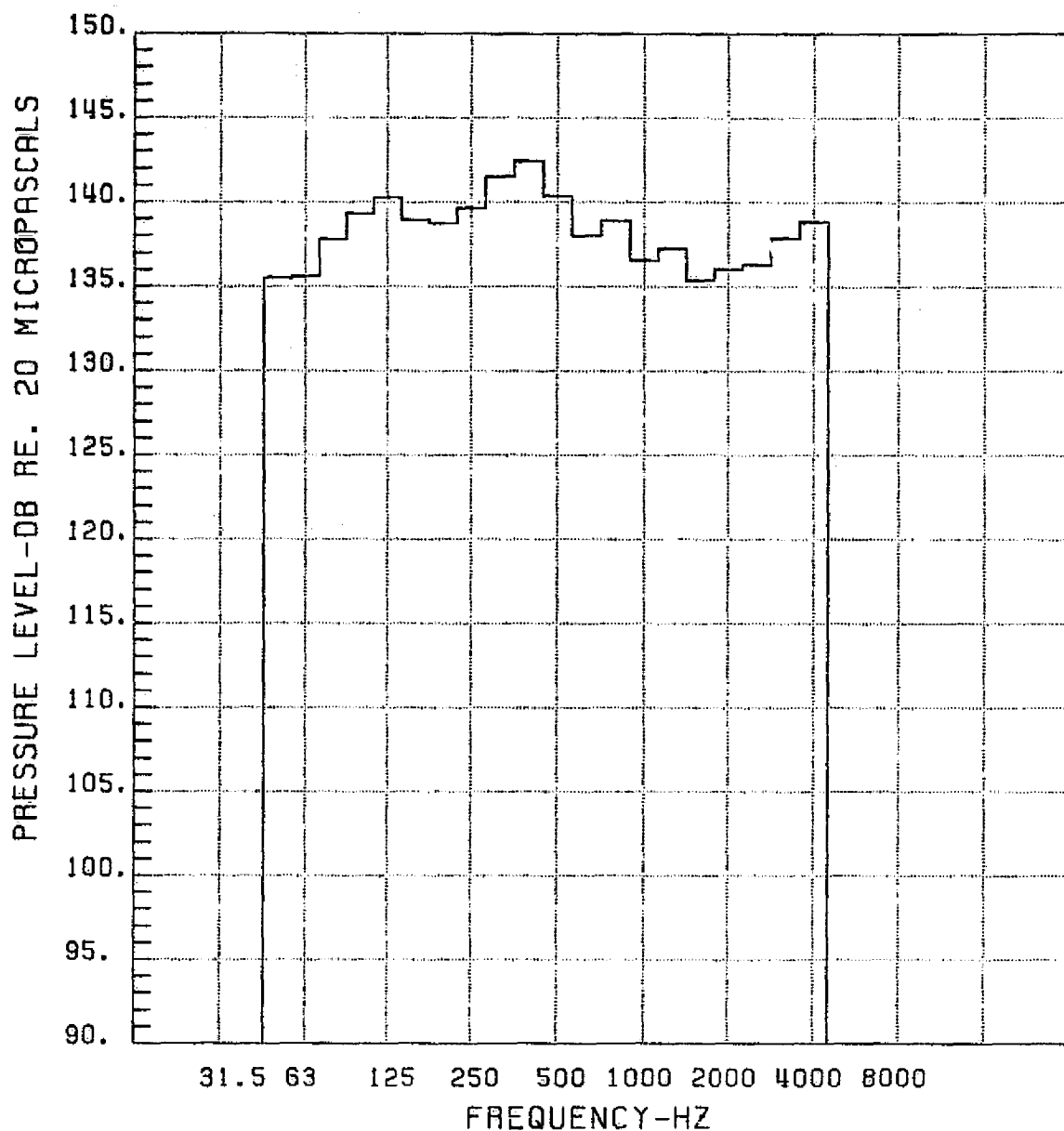
AIR FLOW=6.48 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: I

RUN NUMBER: 6C



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

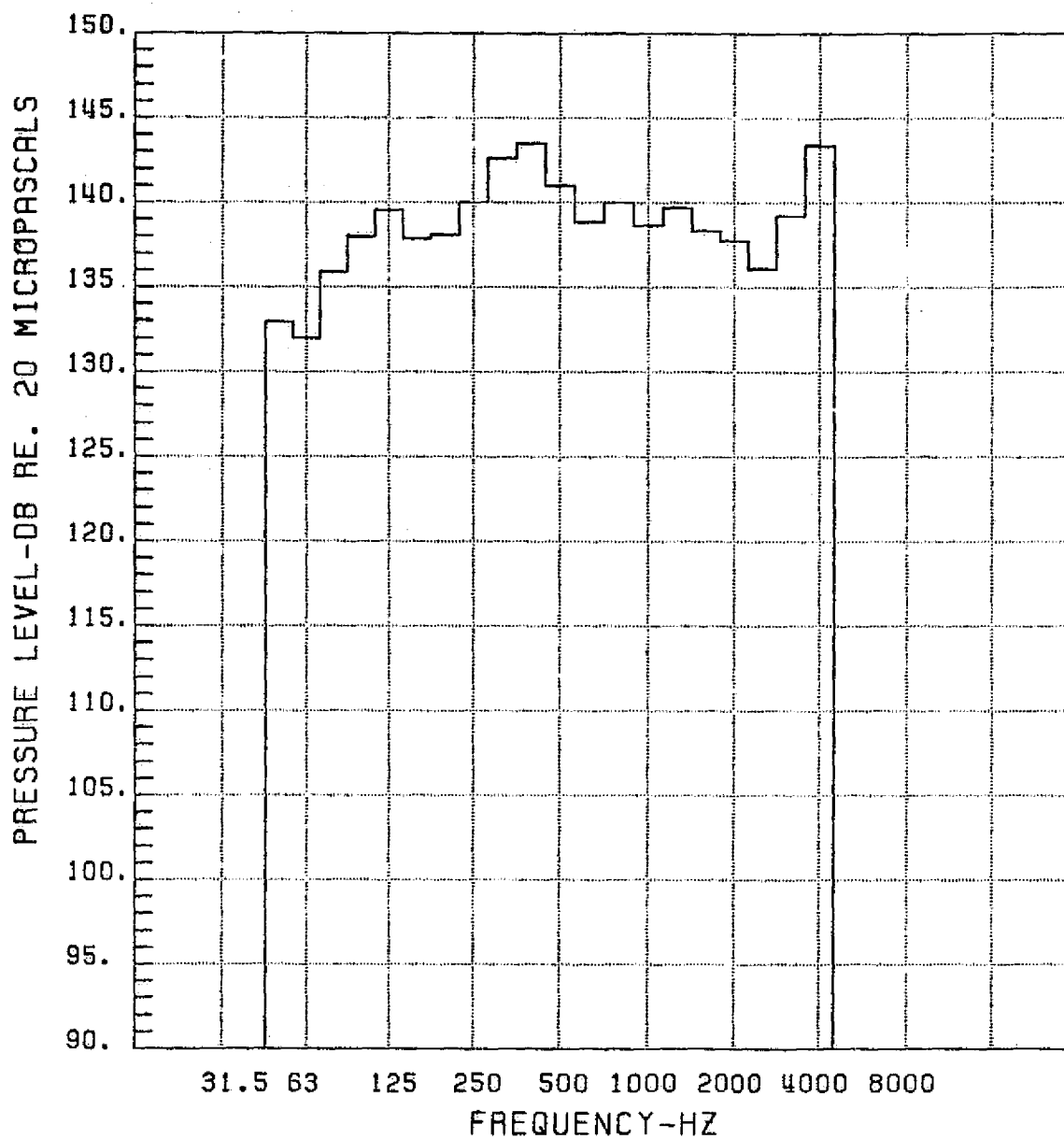
INLET PRESS= 448. KPA (65.0 PSIA), COMB EXIT TEMP= 603.9 DEG C (1119. DEG F),  
AIR FLOW= 8.00 KG/SEC (17.6 #/SEC), FUEL FLOW= 306. KG/HR (676. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: I

RUN NUMBER: 7



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

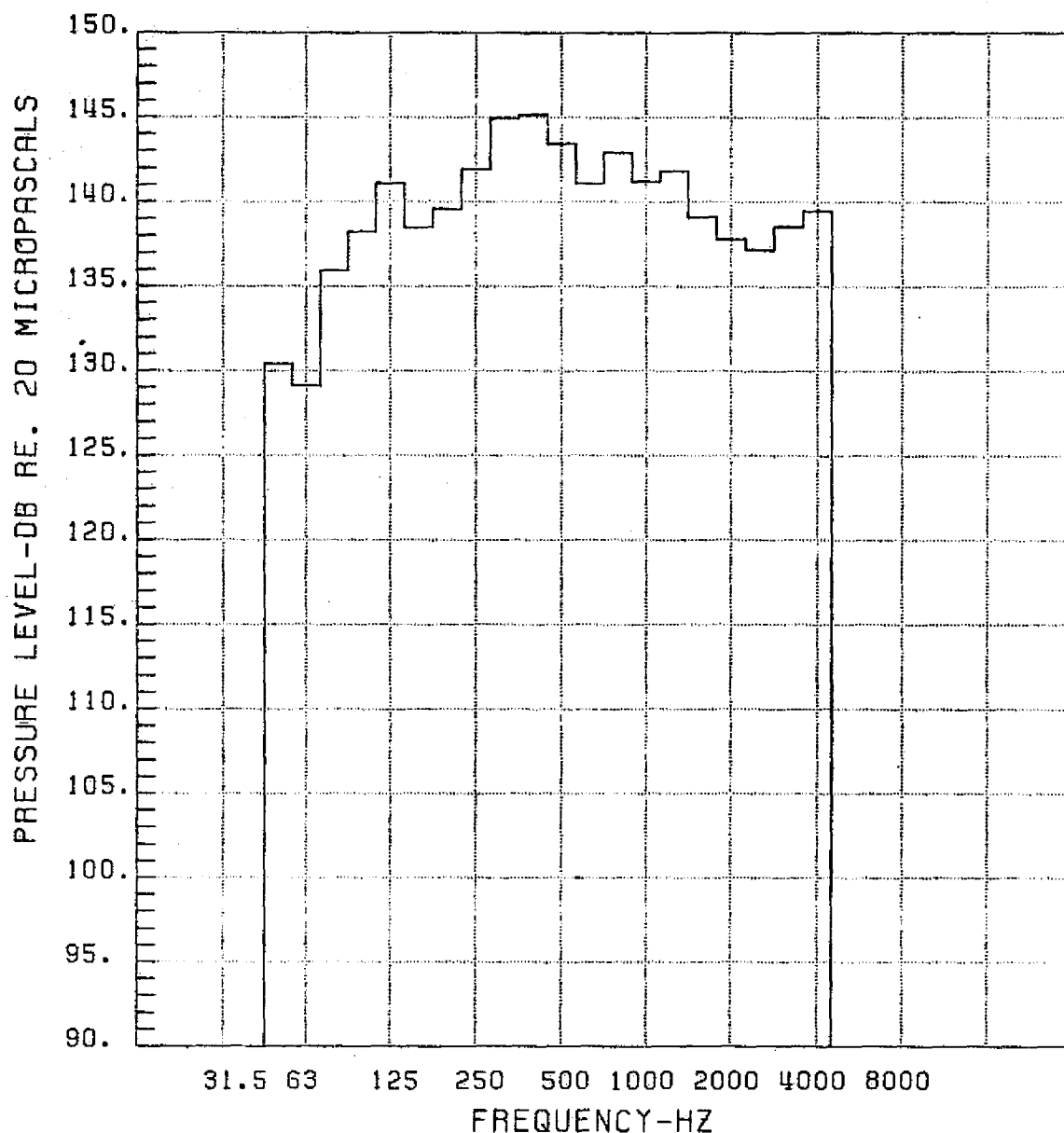
INLET PRESS= 448. KPA (65.0 PSIA), COMB EXIT TEMP= 603.9 DEG C (1119. DEG F),  
AIR FLOW= 8.00 KG/SEC (17.6 \*/SEC), FUEL FLOW= 306. KG/HR (676. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: I

RUN NUMBER: 7



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 448. KPA (65.0 PSIA), COMB EXIT TEMP=603.9 DEG C (1119. DEG F).

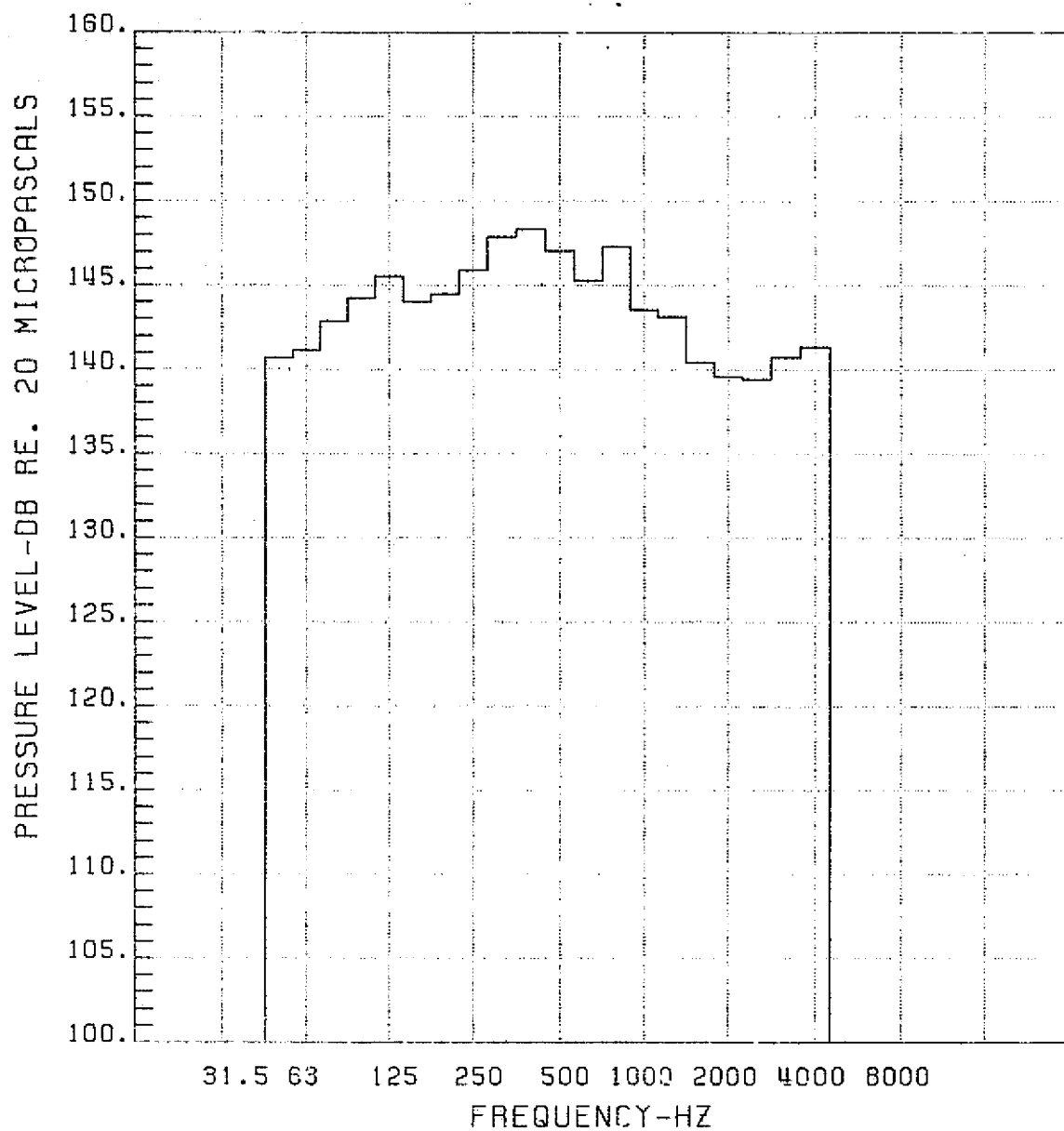
AIR FLOW=8.00 KG/SEC (17.6 #/SEC), FUEL FLOW= 306. KG/HR ( 676. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: I

RUN NUMBER: 7



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

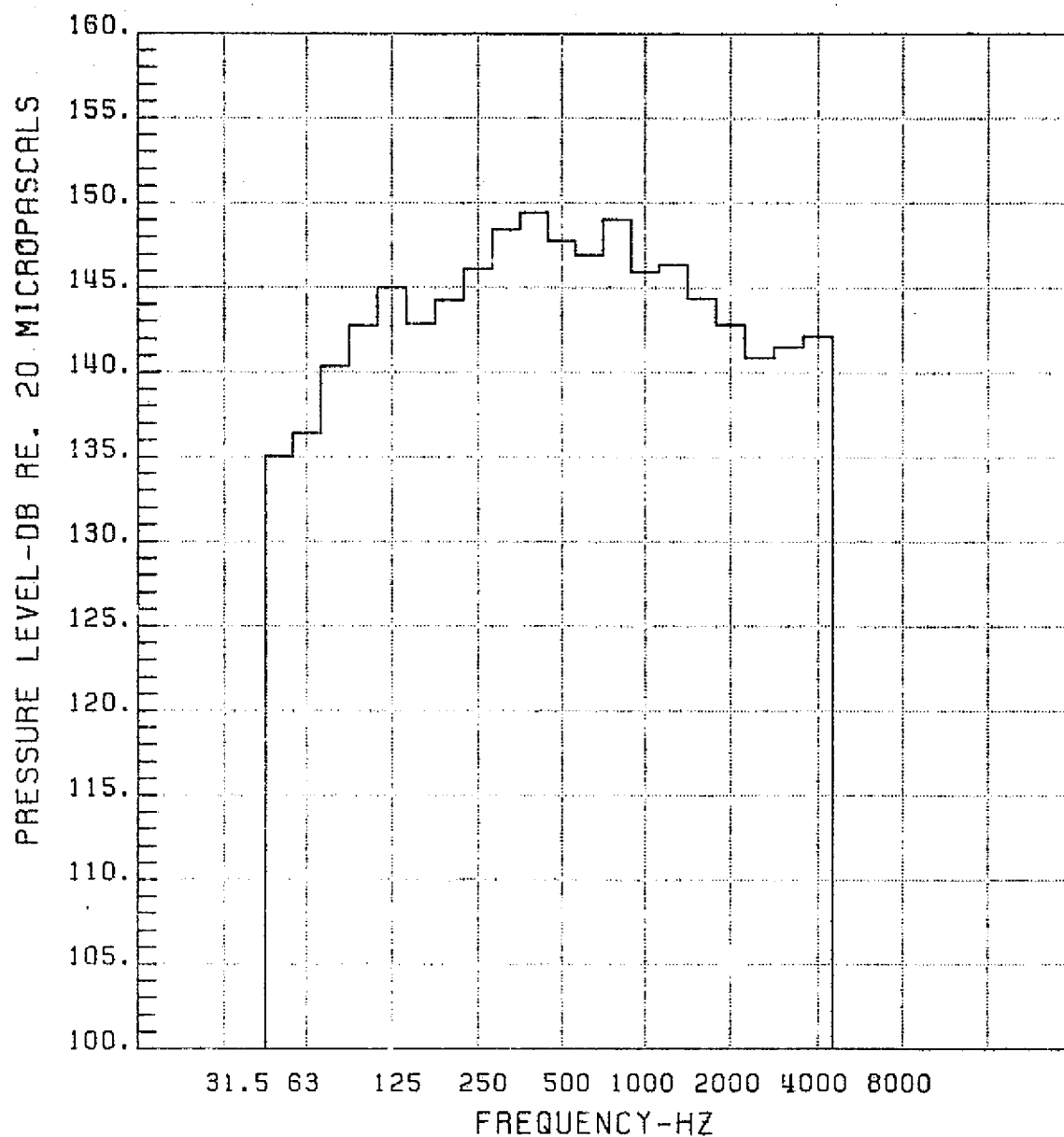
TITLE: YF 102 OPERATING POINTS  
INLET PRESS= 448. KPA (65.0 PSIA), COMB EXIT TEMP-603.9 DEG C (1119. DEG F),  
AIR FLOW=8.00 KG/SEC (17.6 #/SEC), FUEL FLOW= 306. KG/HR (676. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: I

RUN NUMBER: 7



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 448. KPA (65.0 PSIA), COMB EXIT TEMP=603.9 DEG C (1119. DEG F),

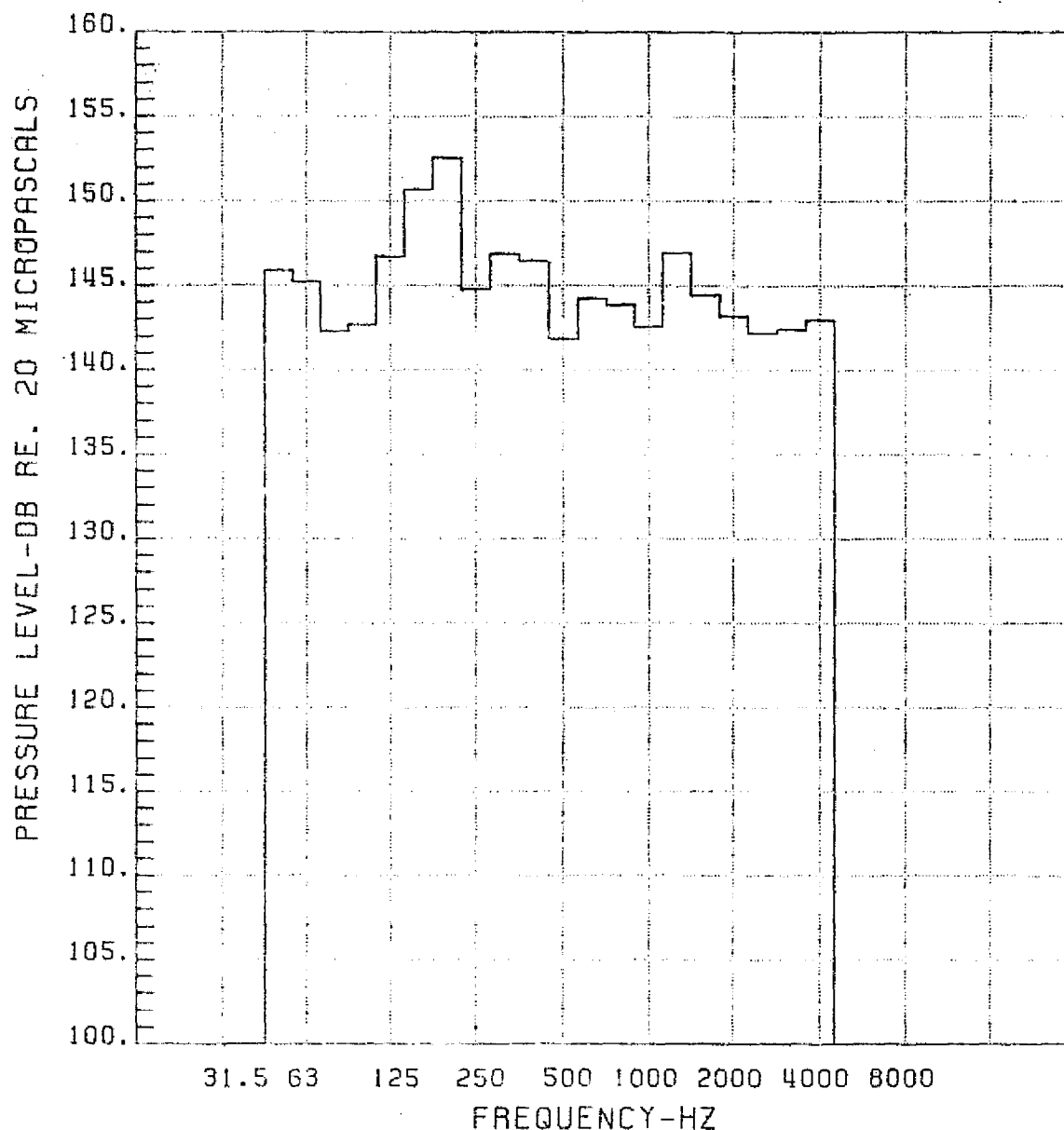
AIR FLOW=8.00 KG/SEC (17.6 #/SEC), FUEL FLOW= 306. KG/HR (676. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: I

RUN NUMBER: 7



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 448. KPA (65.0 PSIA), COMB EXIT TEMP= 603.9 DEG C (1119. DEG F),

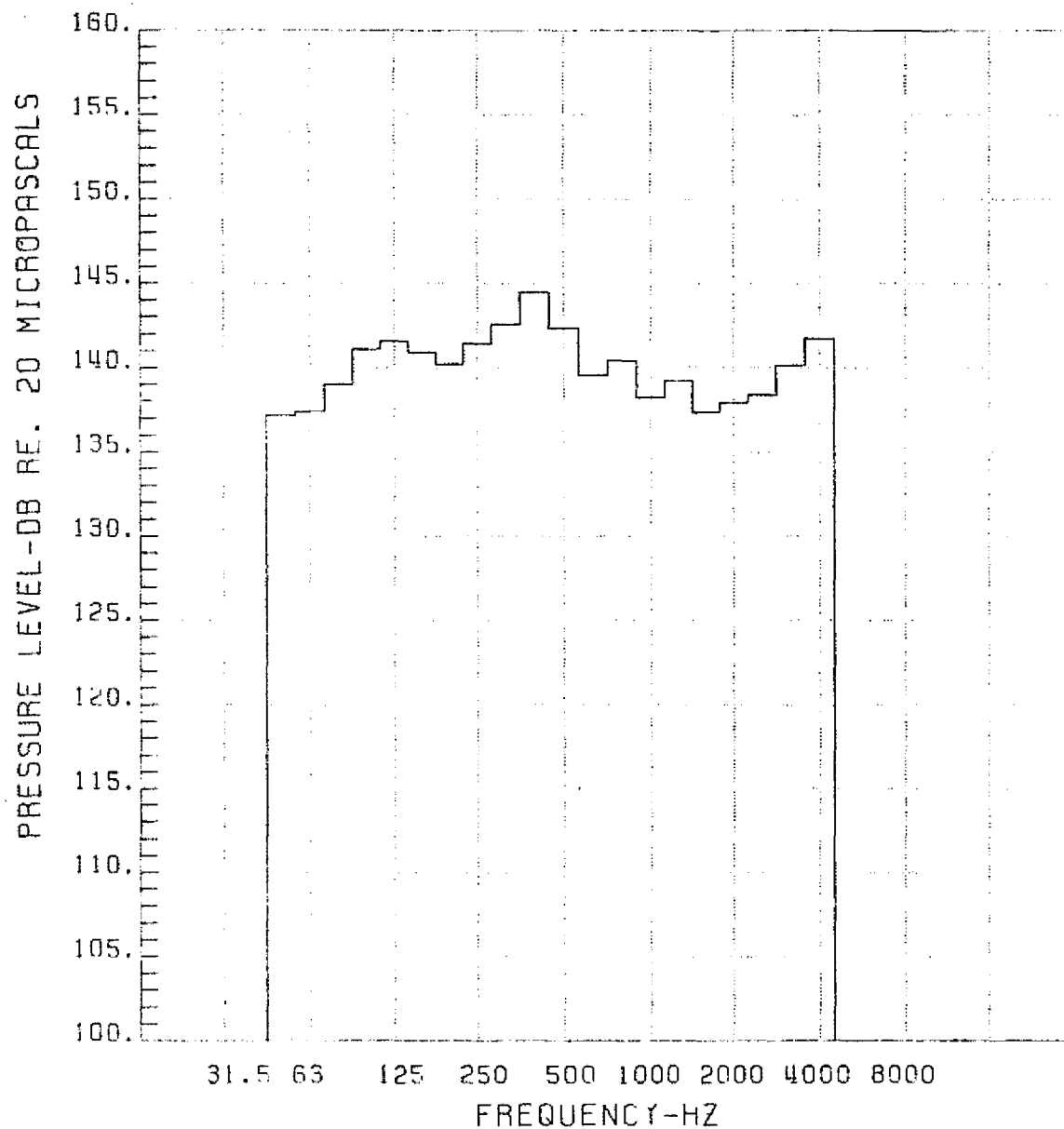
AIR FLOW= 8.00 KG/SEC (17.6 #/SEC), FUEL FLOW= 306. KG/HR (676. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: 1

RUN NUMBER: 7



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP=693.1 DEG C (1280. DEG F),  
AIR FLOW=9.53 KG/SEC (21.0 #/SEC), FUEL FLOW= 423. KG/HR (932. #/HR)

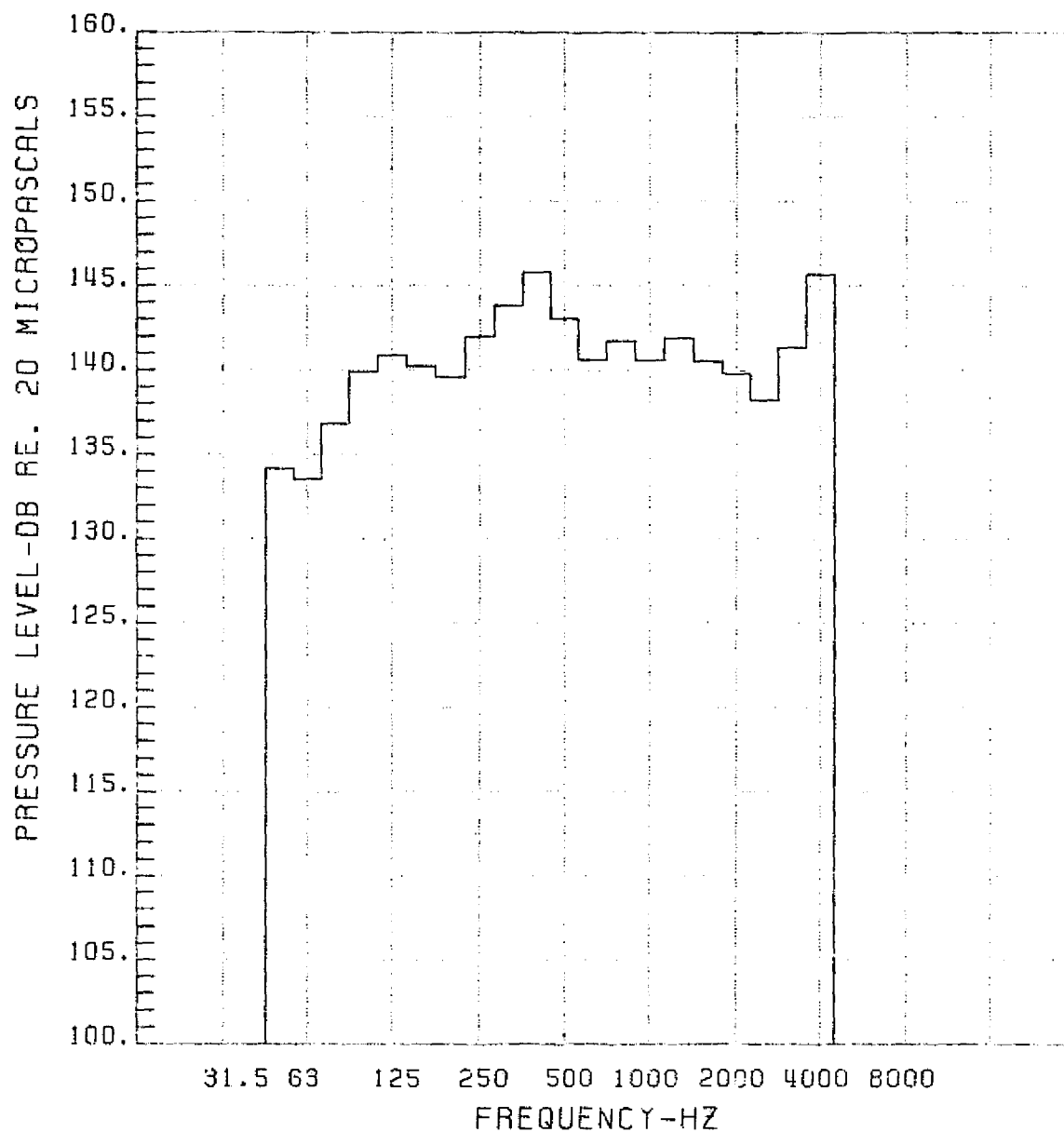
TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: I

RUN NUMBER: 10





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP=693.1 DEG C (1280. DEG F),

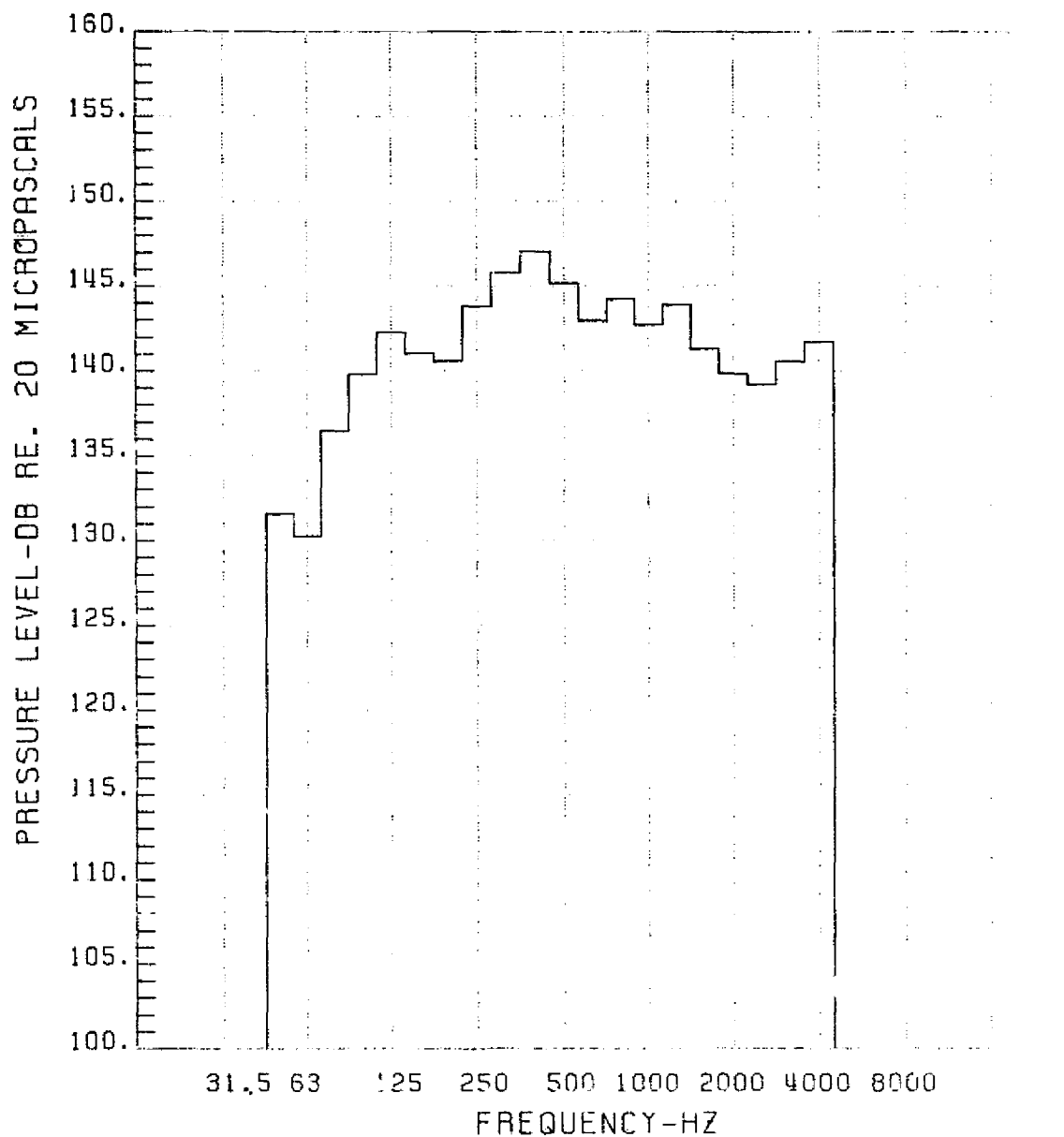
AIR FLOW=9.53 KG/SEC (21.0 #/SEC), FUEL FLOW= 423. KG/HR (932. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: I

RUN NUMBER: 10



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 553. KPA (80.3PSIA), COMB EXIT TEMP=693.1 DEG C (1280. DEG F),

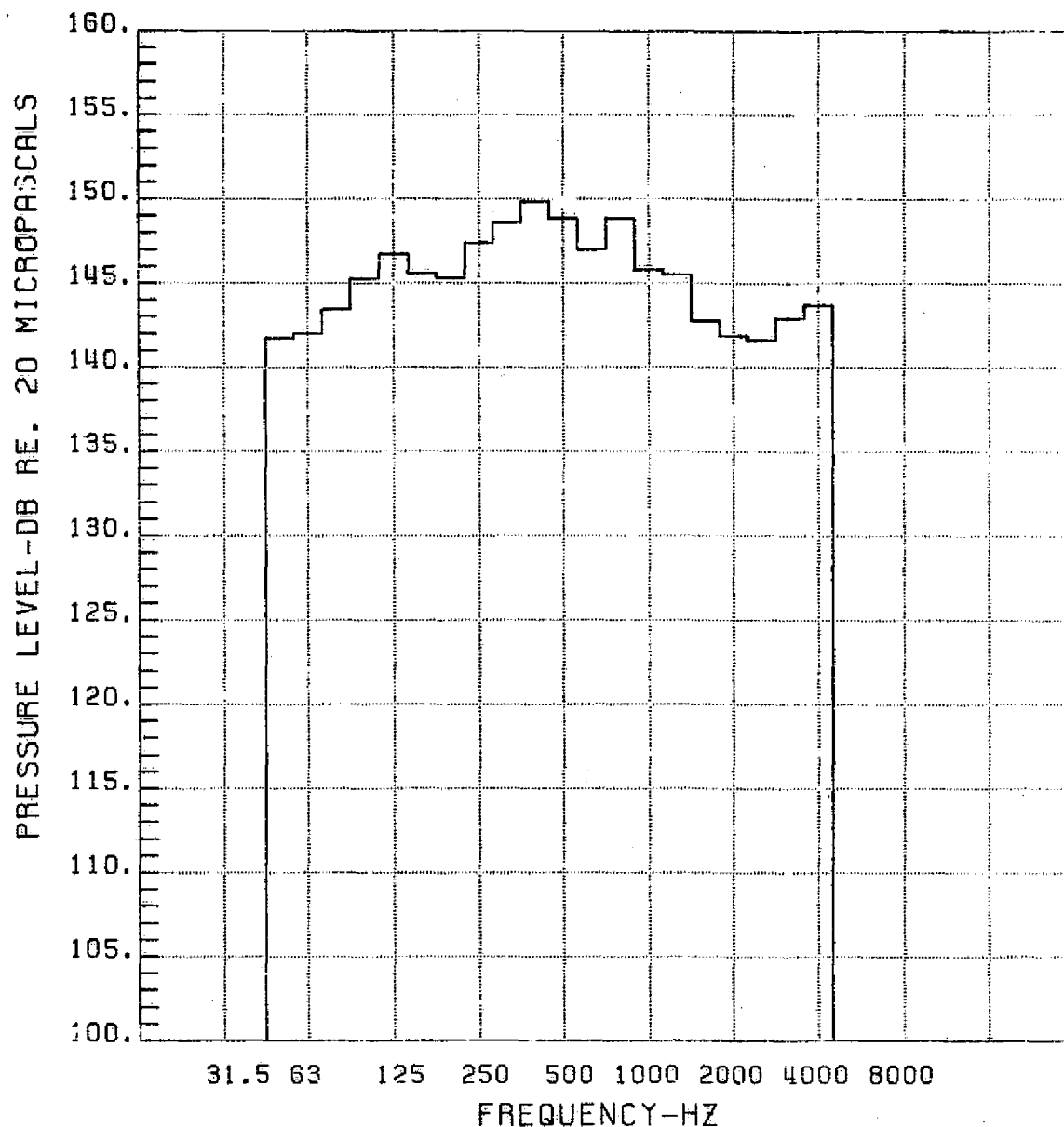
AIR FLOW=9.53 KG/SEC (21.0 #/SEC), FUEL FLOW= 423. KG/HR (932. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: I

RUN NUMBER: 10



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP=693.1 DEG C (1280. DEG F),

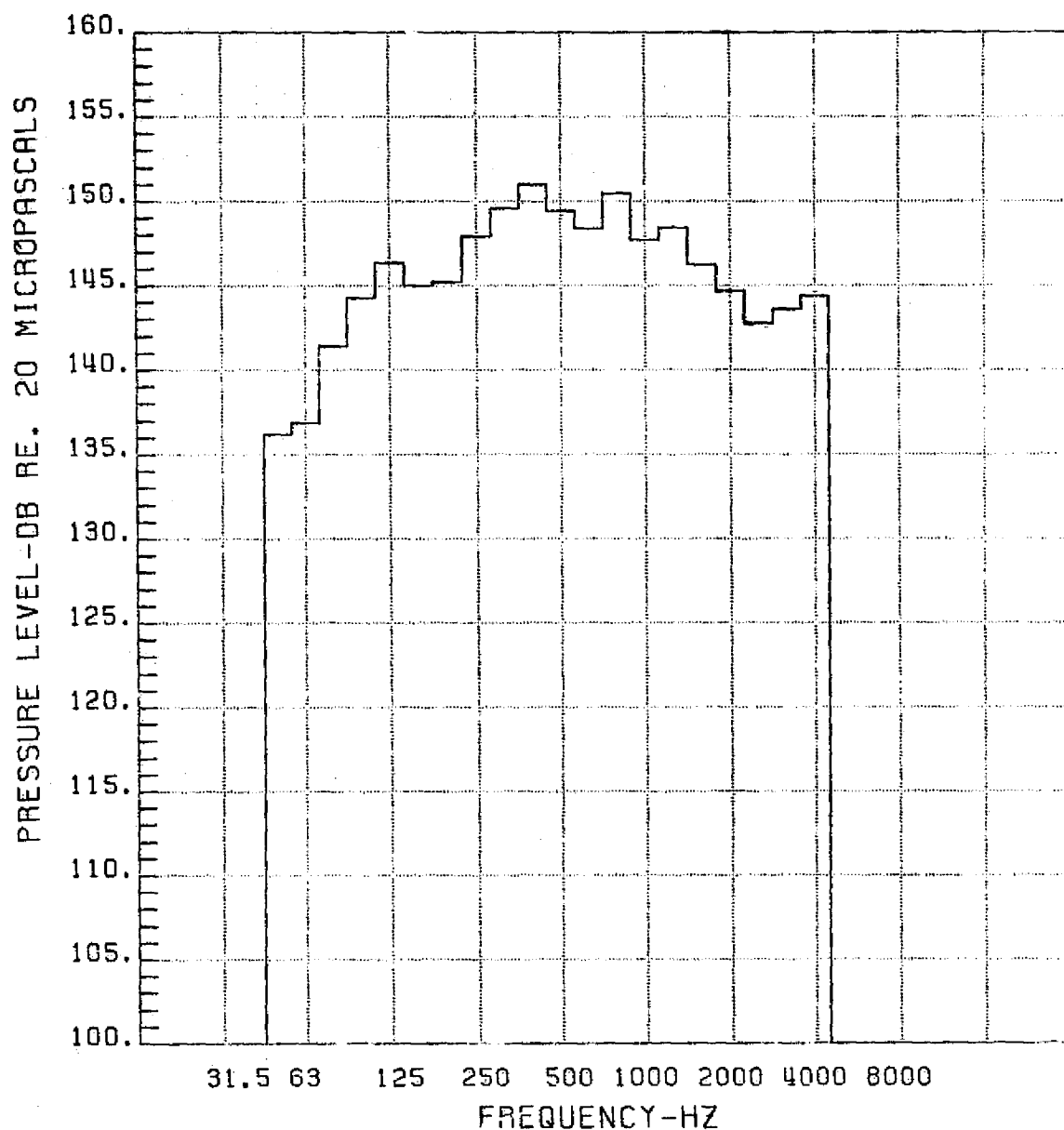
AIR FLOW=9.53 KG/SEC (21.5 \*/SEC), FUEL FLOW=423. KG/HR (932. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: I

RUN NUMBER: 10



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP= 693.1 DEG C (1280. DEG F),

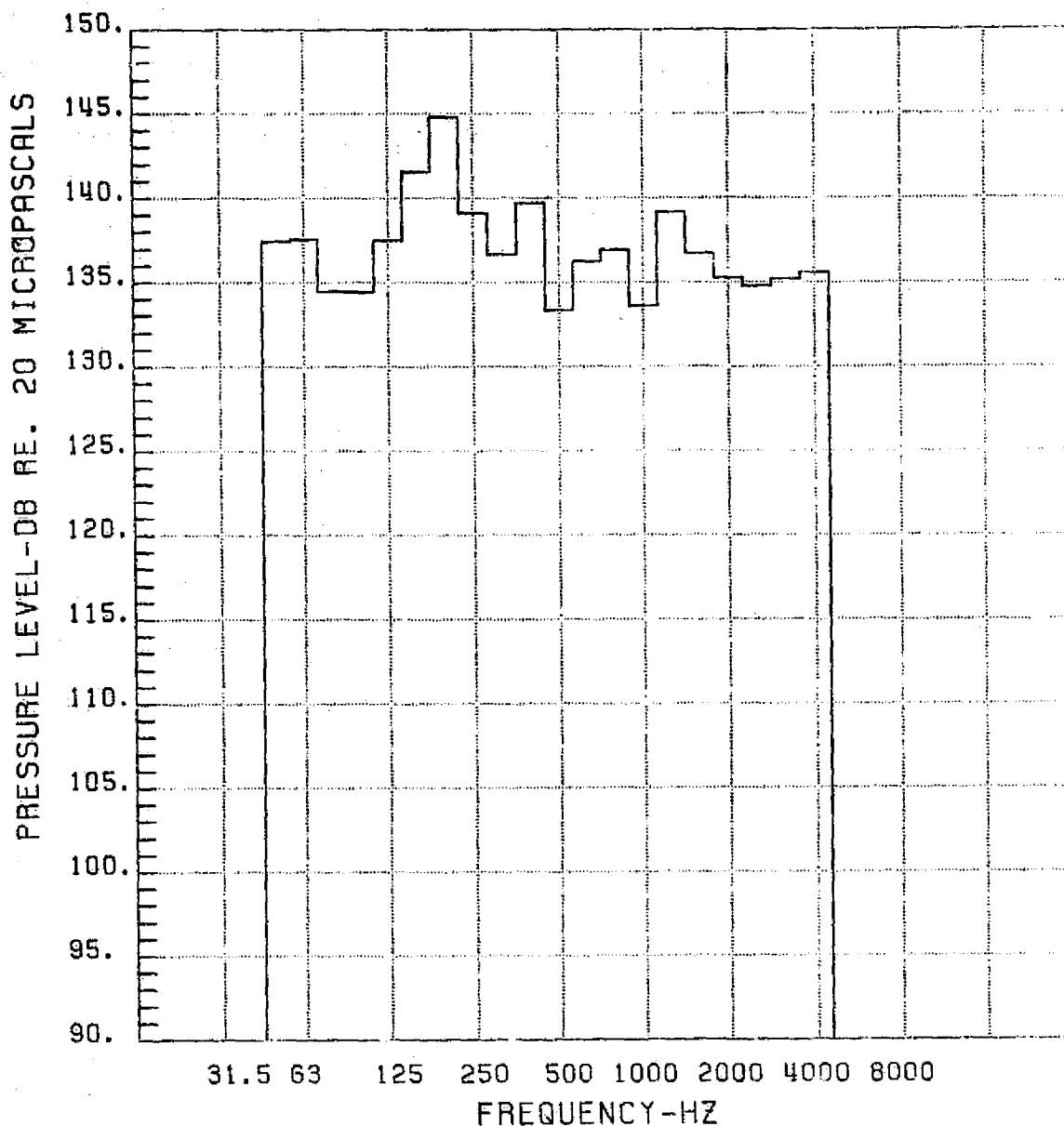
AIR FLOW= 9.53 KG/SEC (21.0 \*/SEC), FUEL FLOW= 423. KG/HR (932. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: 1

RUN NUMBER: 10



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: YF 102 OPERATING POINTS

INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP=693.1 DEG C (1280. DEG F),

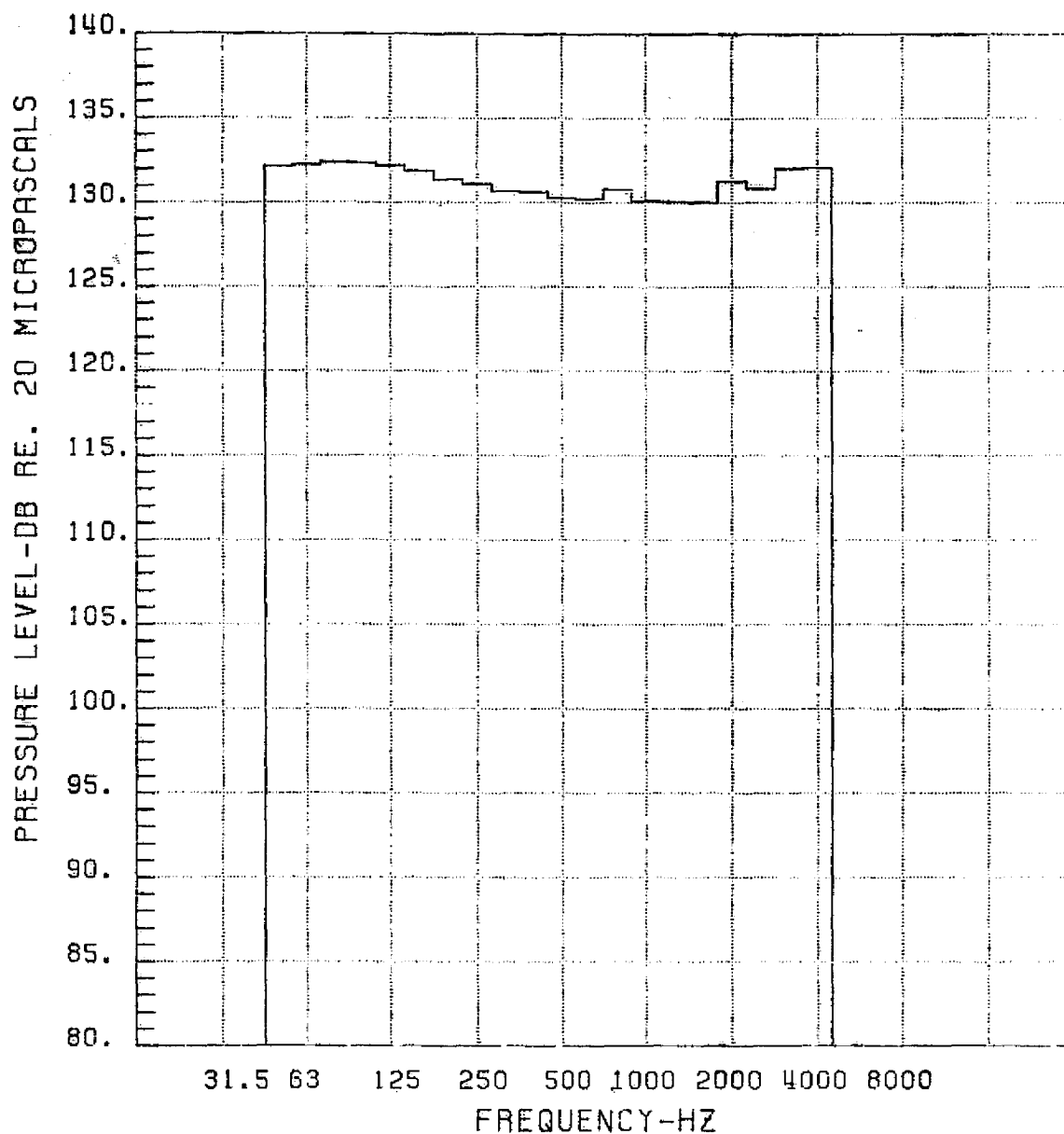
AIR FLOW=9.53 KG/SEC (21.0 \*/SEC), FUEL FLOW= 423. KG/HR (932. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: I

RUN NUMBER: 10



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06407  
ONE THIRD OCTAVE BAND ANALYSIS

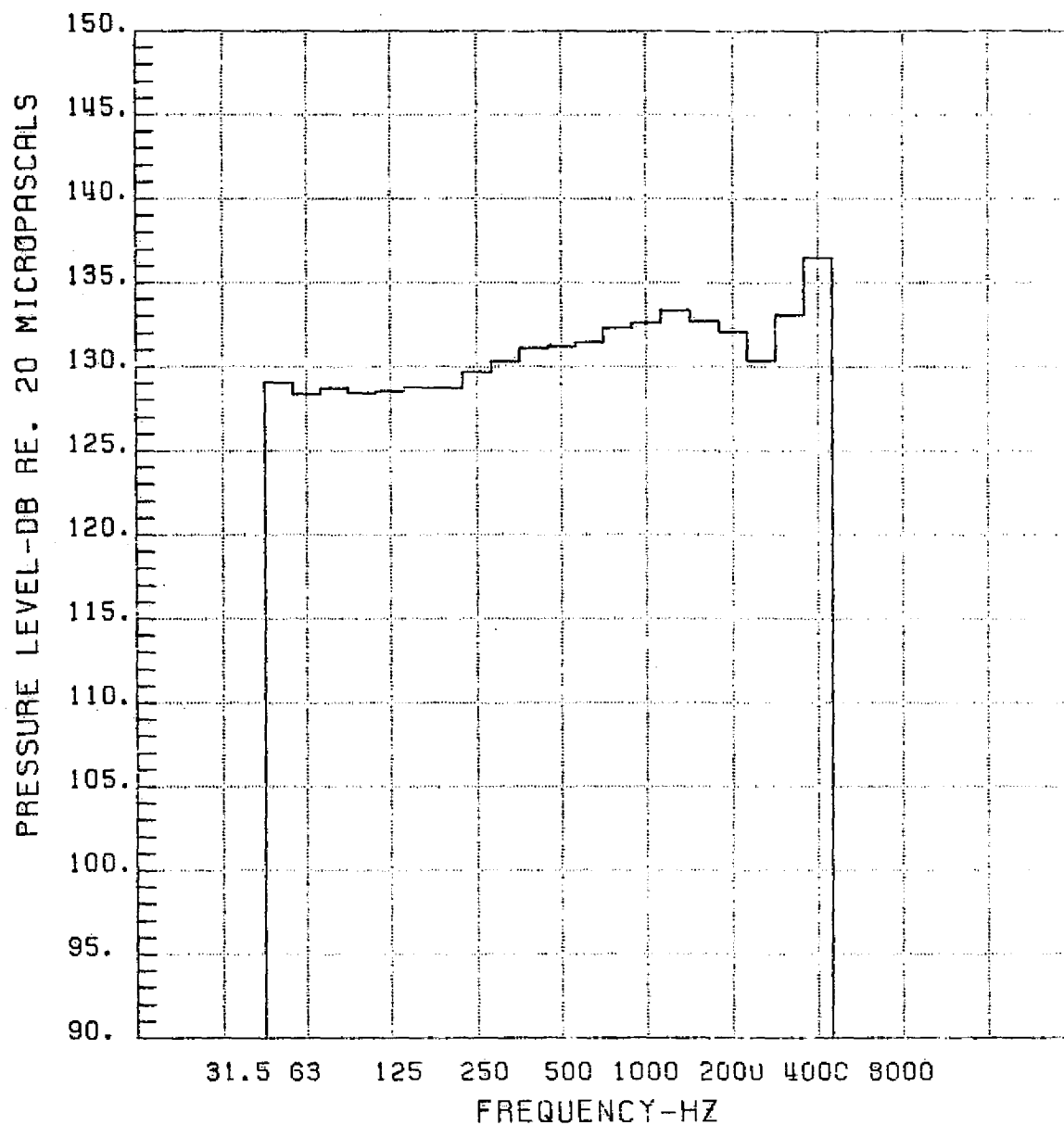
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP=124.1 DEG C (255. DEG F),  
AIR FLOW=4.94 KG/SEC (10.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: II

RUN NUMBER: 1



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

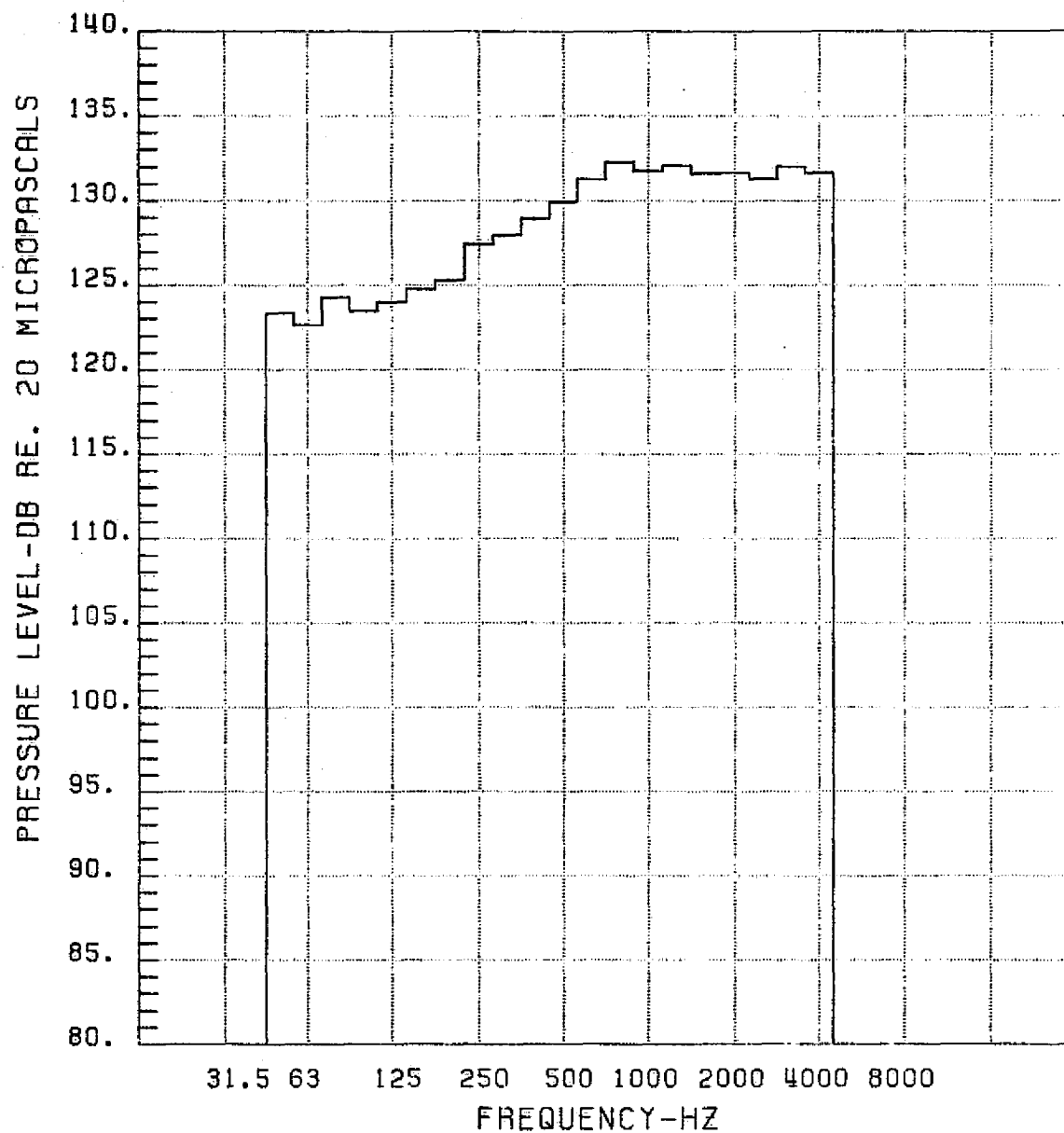
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP= 124.1 DEG C (255. DEG F),  
AIR FLOW= 4.94 KG/SEC (10.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: II

RUN NUMBER: 1



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP=124.1 DEG C (255. DEG F),  
AIR FLOW=4.94 KG/SEC (10.9 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)

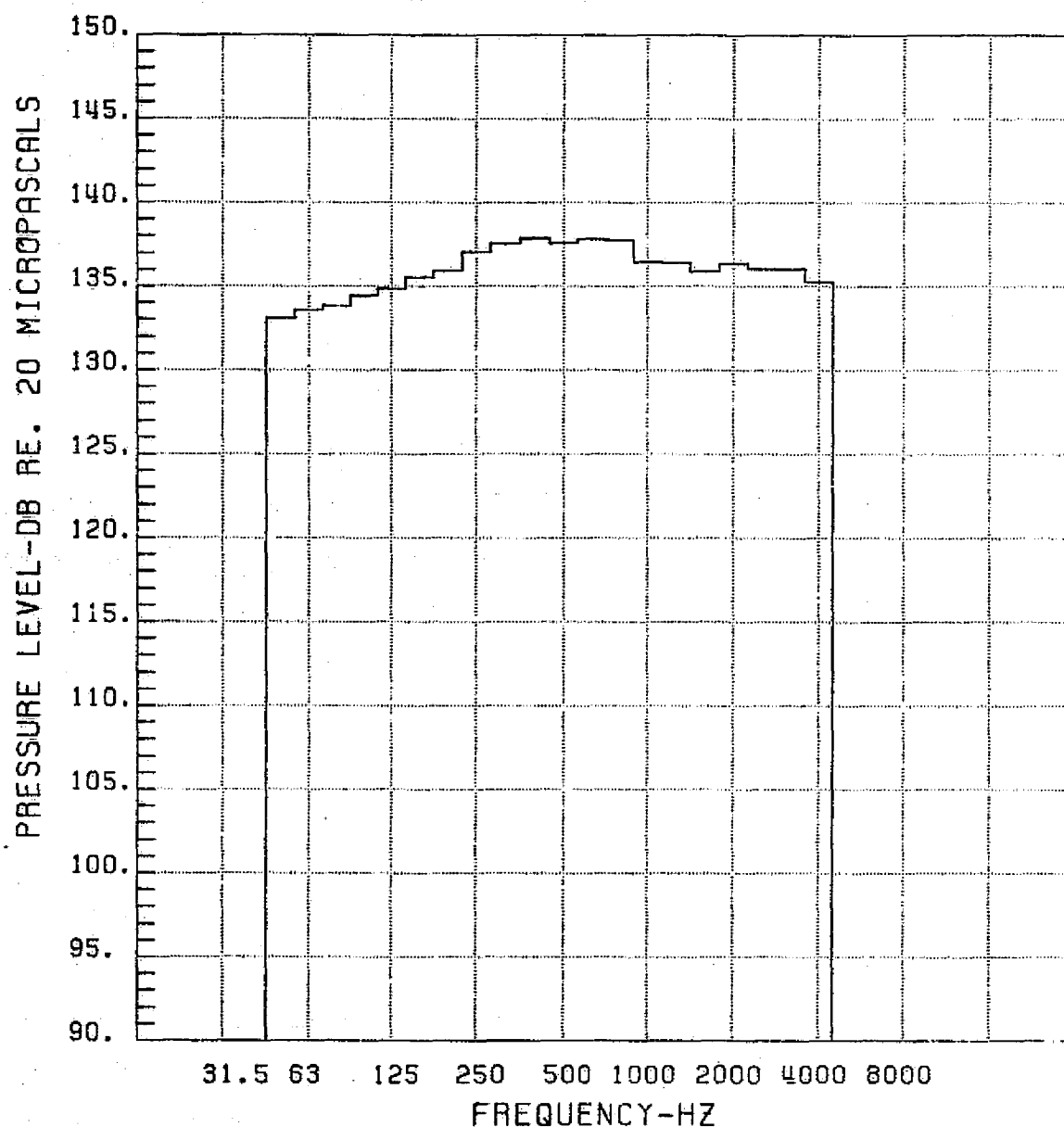
TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: II

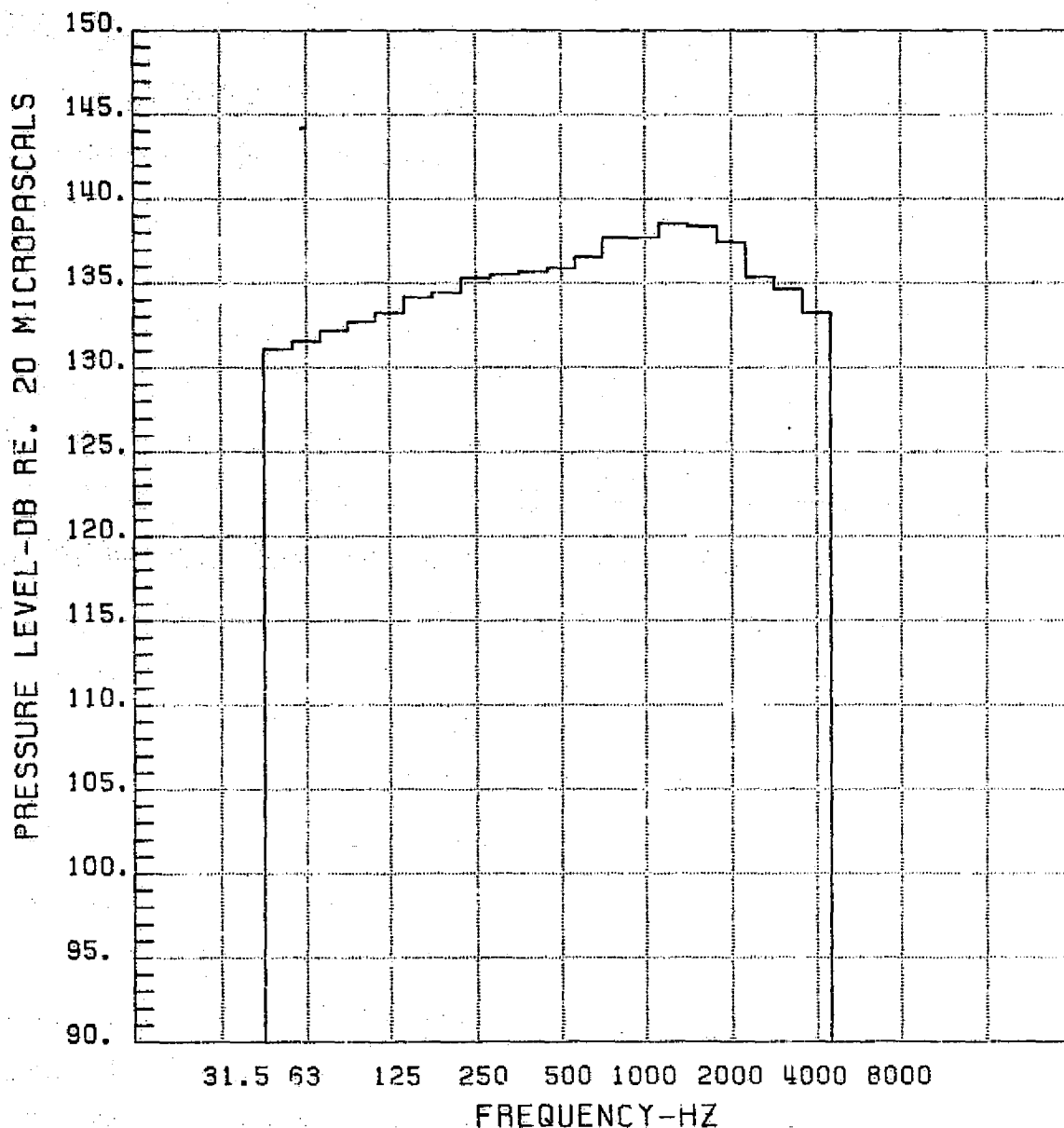
RUN NUMBER: 1





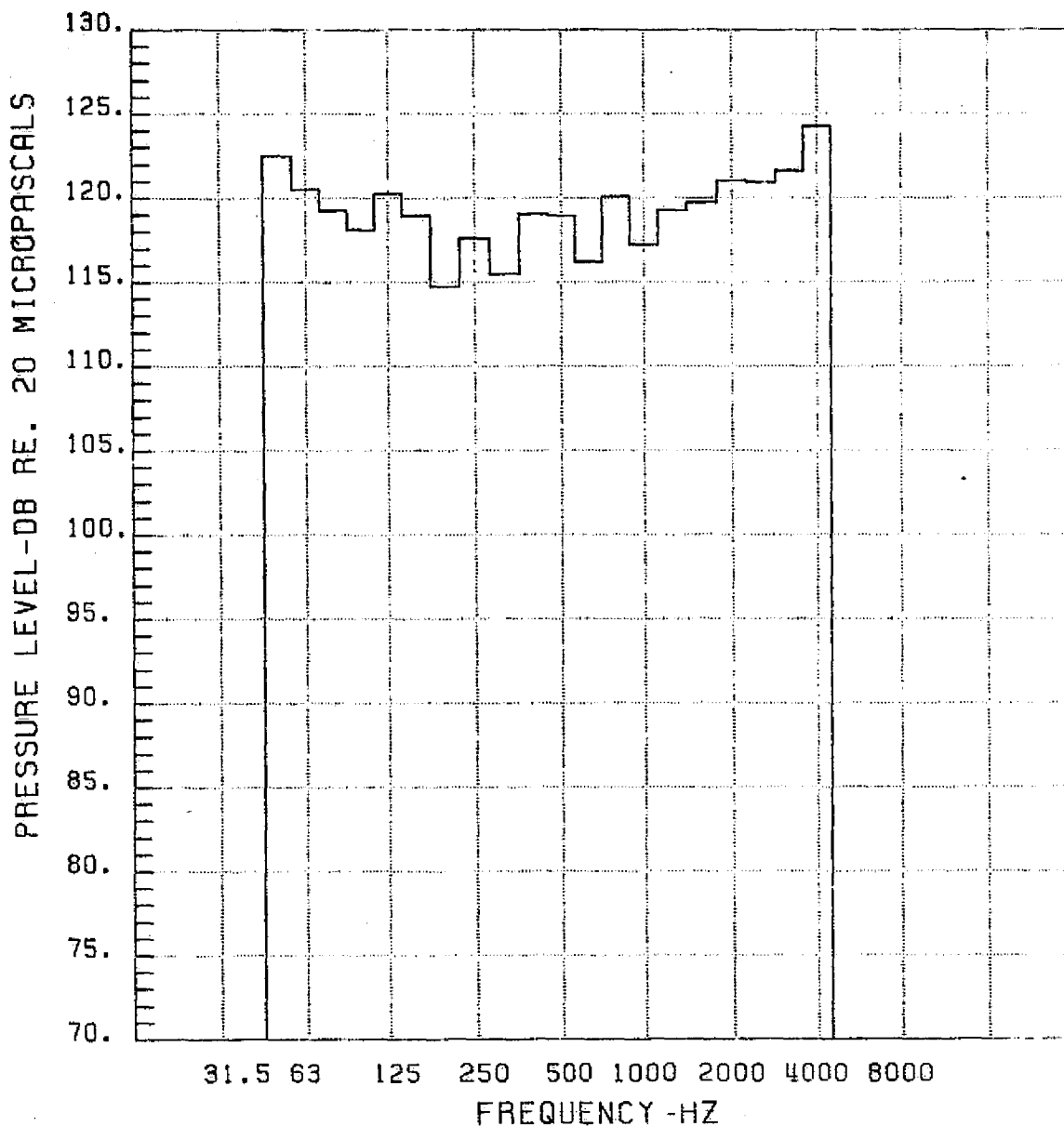
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP= 124.1 DEG C (255. DEG F),  
AIR FLOW= 4.94 KG/SEC (10.9 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: II RUN NUMBER: 1



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP= 124.1 DEG C (255. DEG F),  
AIR FLOW= 4.94 KG/SEC (10.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: II RUN NUMBER: 1



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

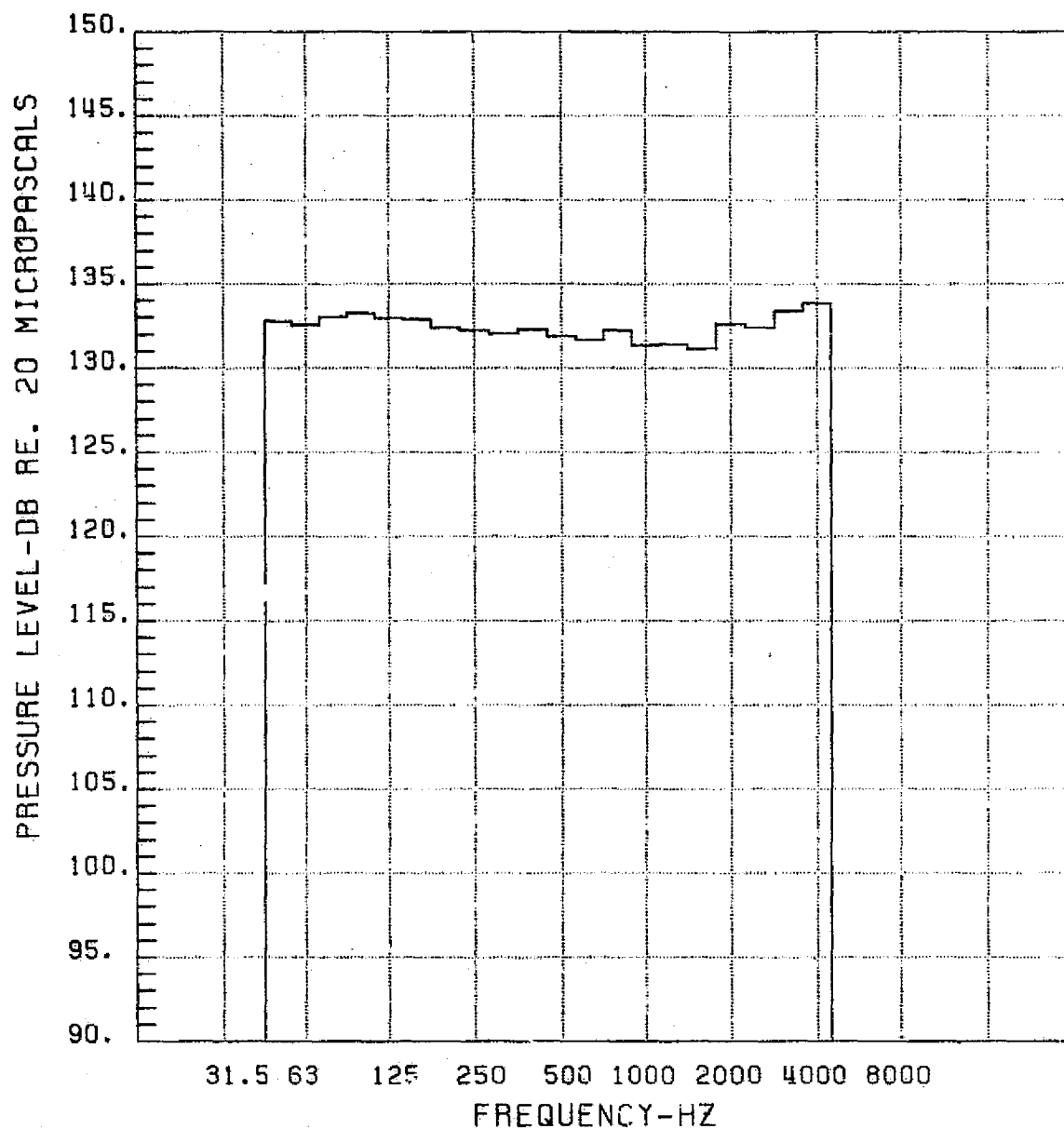
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP= 124.1 DEG C (255. DEG F),  
AIR FLOW= 4.94 KG/SEC (10.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

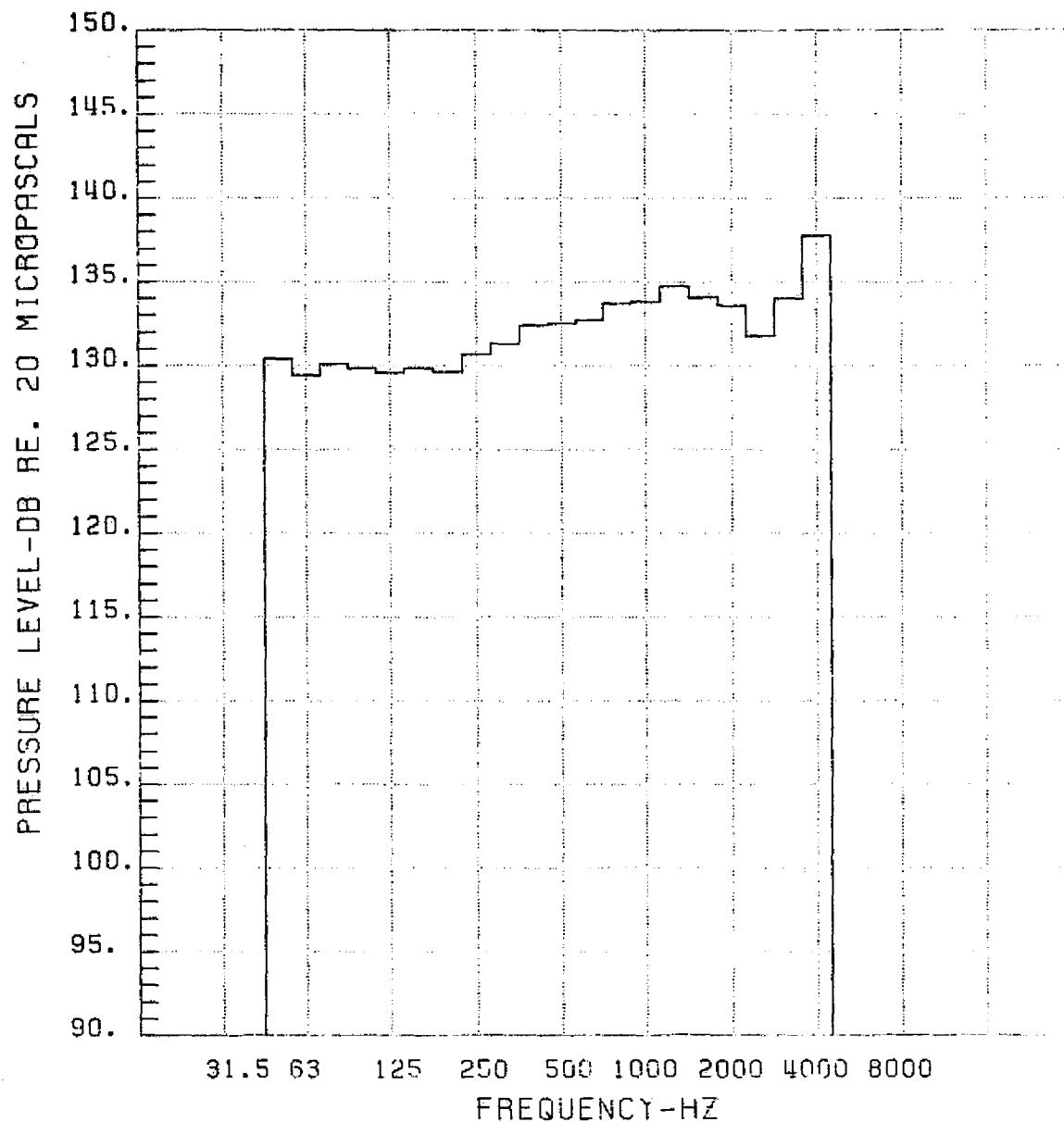
GROUP: II

RUN NUMBER: 1



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 313. KPA (45.4 PSIA), COMB EXIT TEMP= 146.5 DEG C (296. DEG F),  
AIR FLOW= 5.94 KG/SEC (13.1 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: II RUN NUMBER: 4

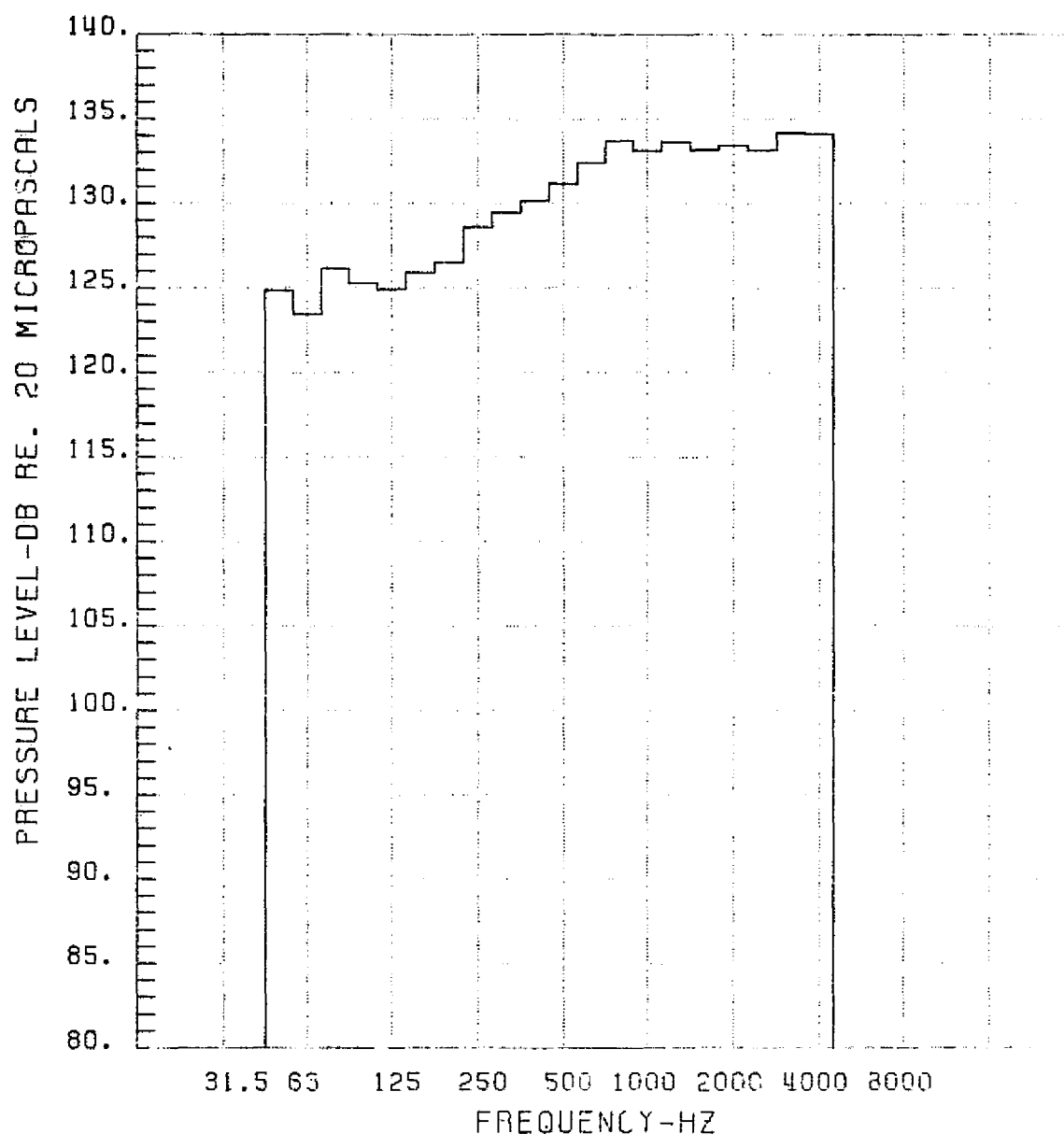


# AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

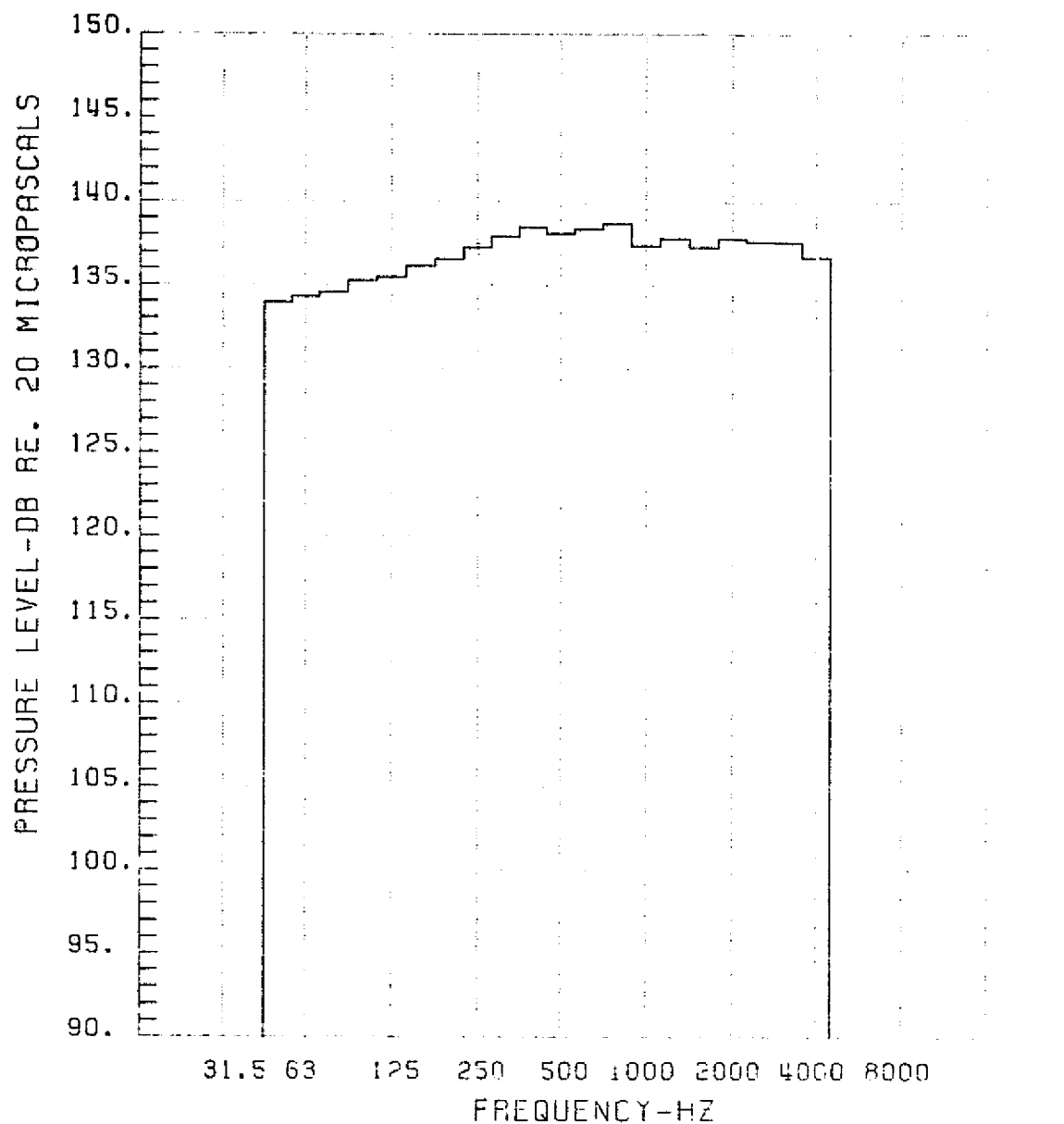
## ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
 INLET PRESS= 313. KPA (45.4 PSIA), COMB EXIT TEMP= 146.5 DEG C (296. DEG F),  
 AIR FLOW= 5.94 KG/SEC (13.1 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
 TEST DATE: 4/19-21/77  
 PROBE NUMBER: 2. GROUP: 11 RUN NUMBER: 4

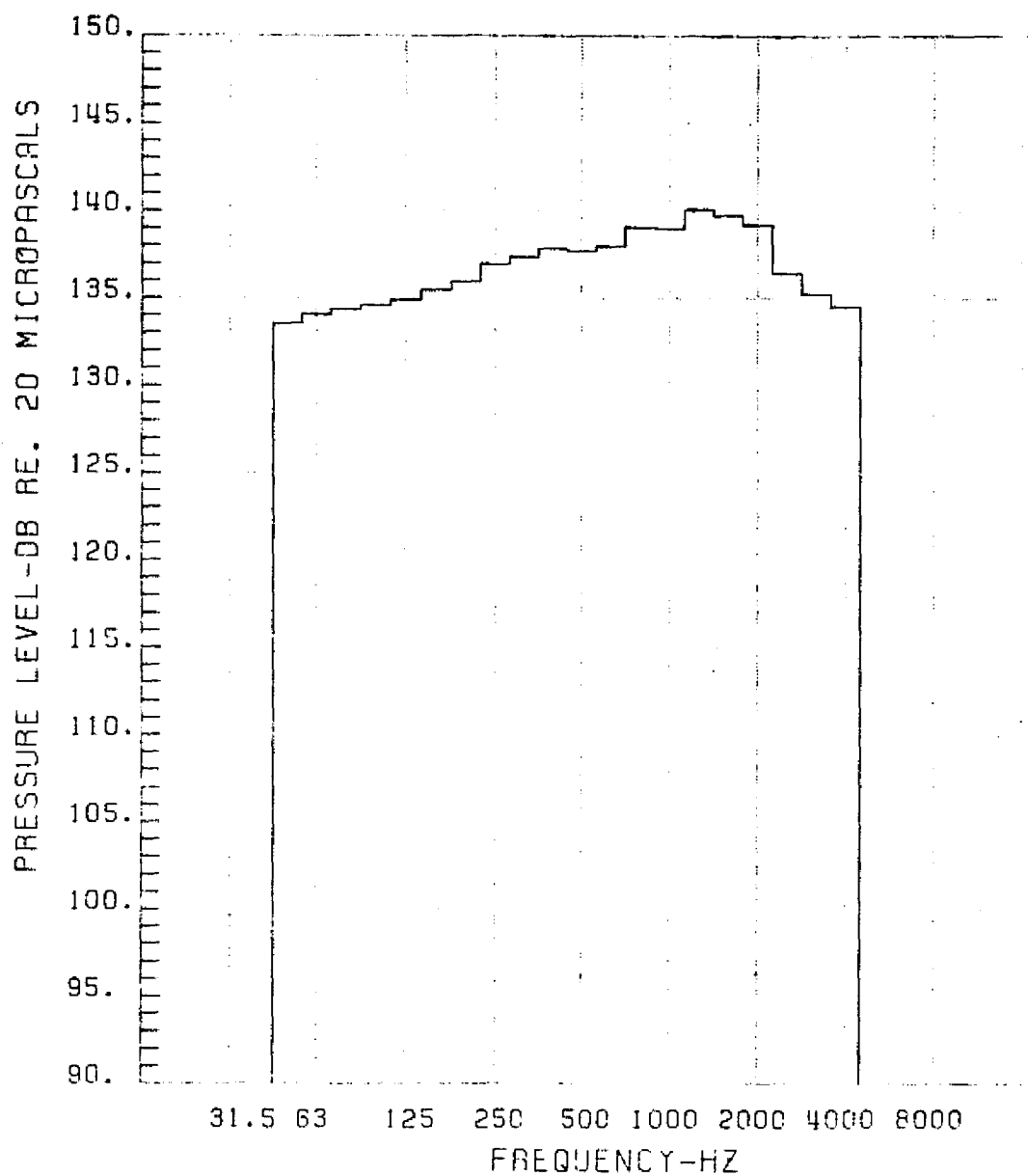


AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 313. KPA (45.4 PSIA), COMB EXIT TEMP=146.5 DEG C (296. DEG F),  
AIR FLOW=5.94 KG/SEC (13.1 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 3. GROUP: II RUN NUMBER: 4



<b>AVCO-LYCOMING DIVISION</b> 550 SOUTH MAIN ST., STAFFORD, CONN. 06497 <b>ONE THIRD OCTAVE BAND ANALYSIS</b>		
<b>TITLE:</b> ZERO FUEL FLOW OPERATING POINTS INLET PRESS= 313. KPA (45.4 PSIA), COMB EXIT TEMP= 146.5 DEG C (296. DEG F), AIR FLOW= 5.94 KG/SEC (13.1 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)		
<b>TEST DATE:</b> 4/19-21/77		
<b>PROBE NUMBER:</b> 4.	<b>GROUP:</b> 11	<b>RUN NUMBER:</b> 4



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497

### ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 313. KPA (45.4 PSIA), COMB EXIT TEMP=146.5 DEG C (296. DEG F).  
AIR FLOW=5.94 KG/SEC (13.1 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

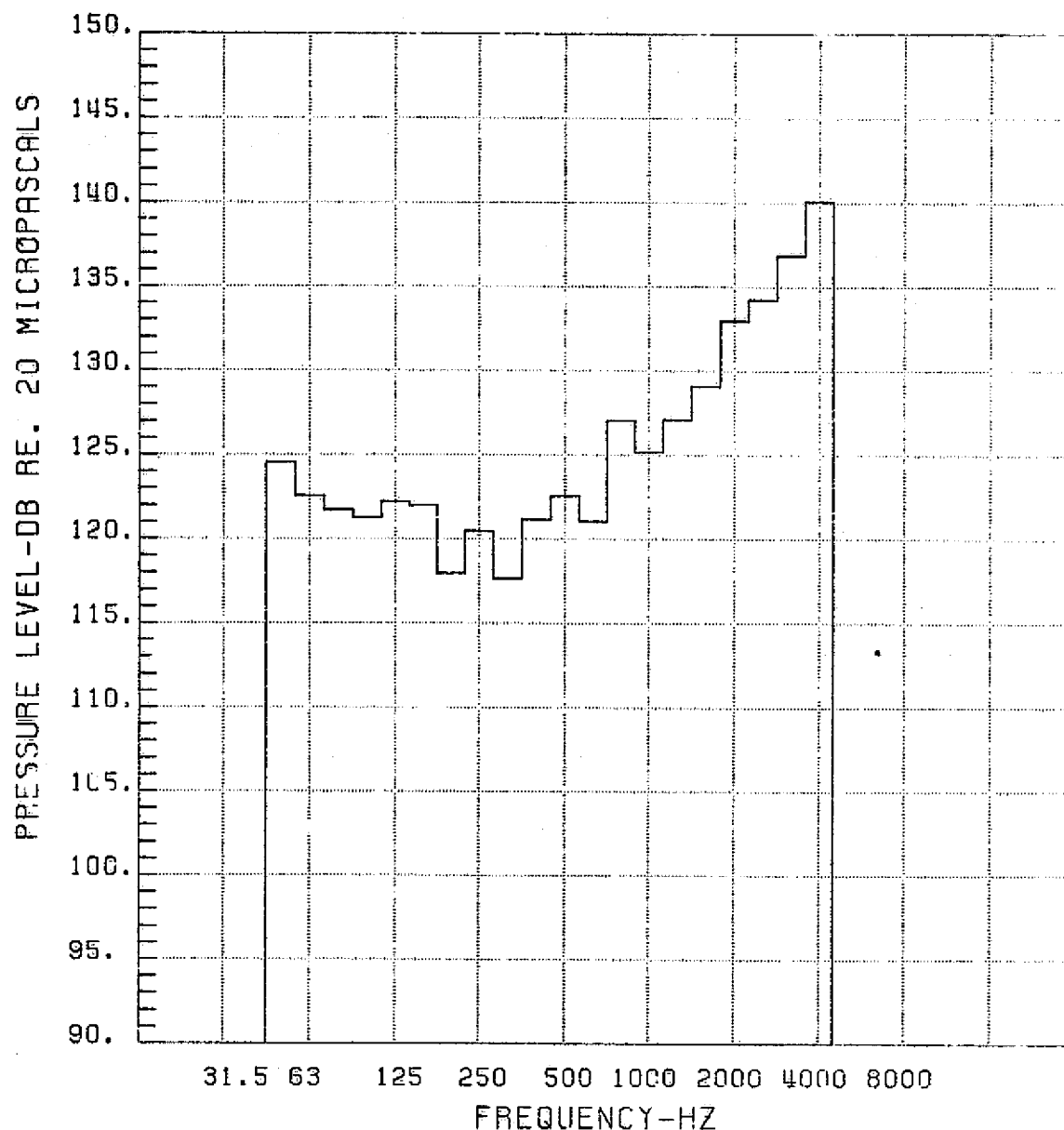
TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: 11

RUN NUMBER: 4





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAMFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

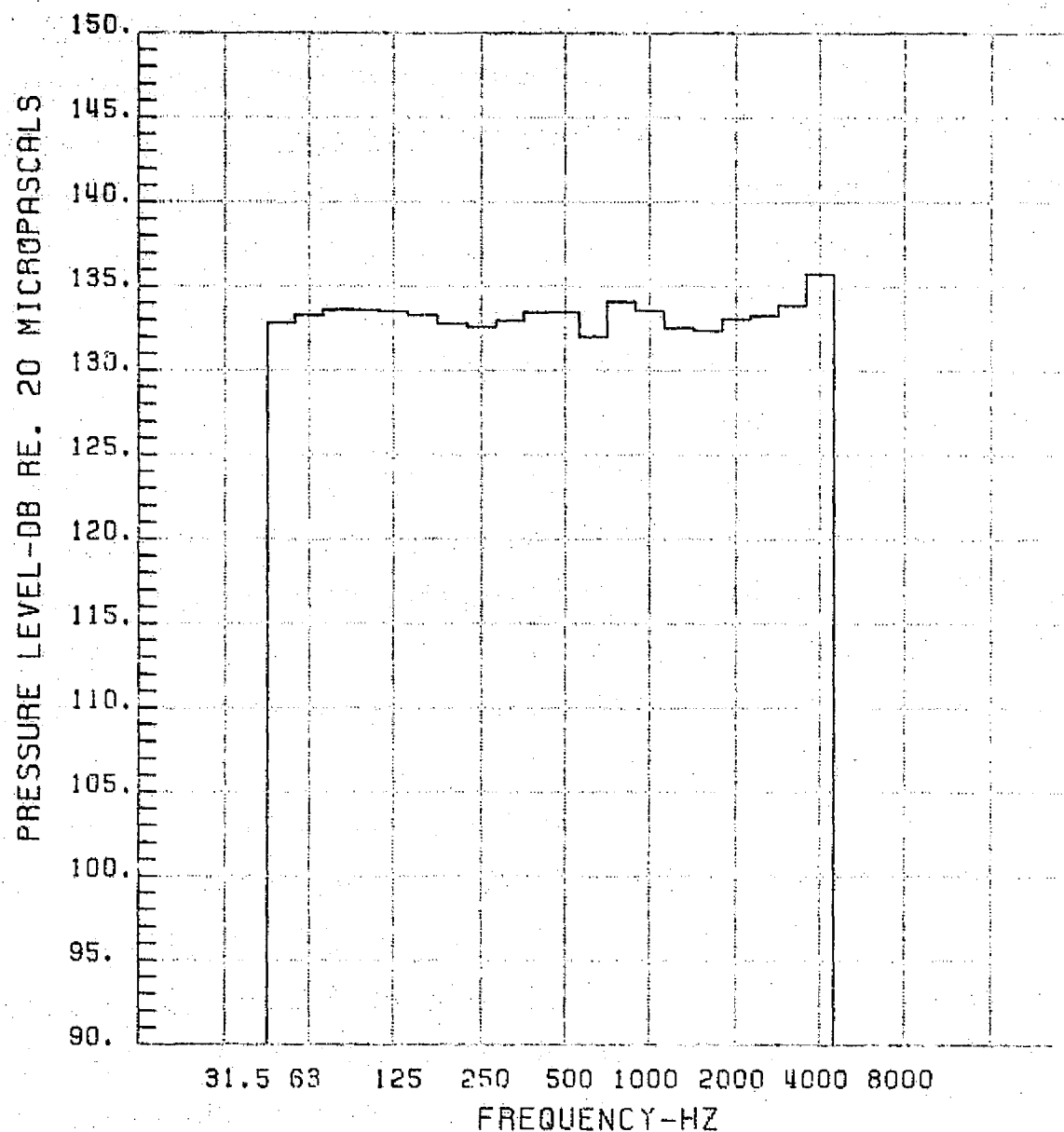
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 313. KPA (45.4PSIA), COMB EXIT TEMP=146.5 DEG C (296. DEG F.,  
AIR FLOW=5.94 KG/SEC (13.1 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

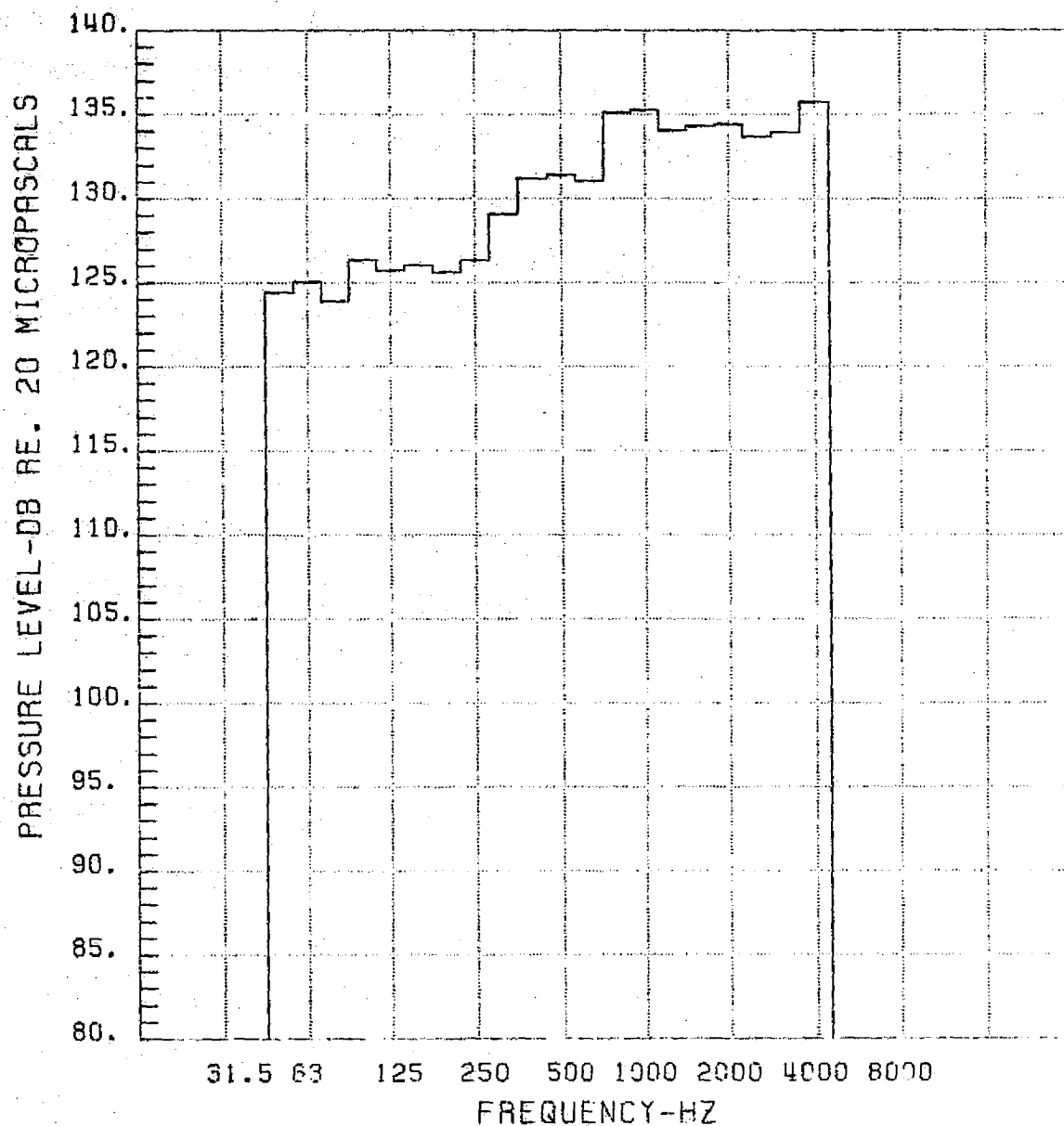
GROUP: 11

RUN NUMBER: 4



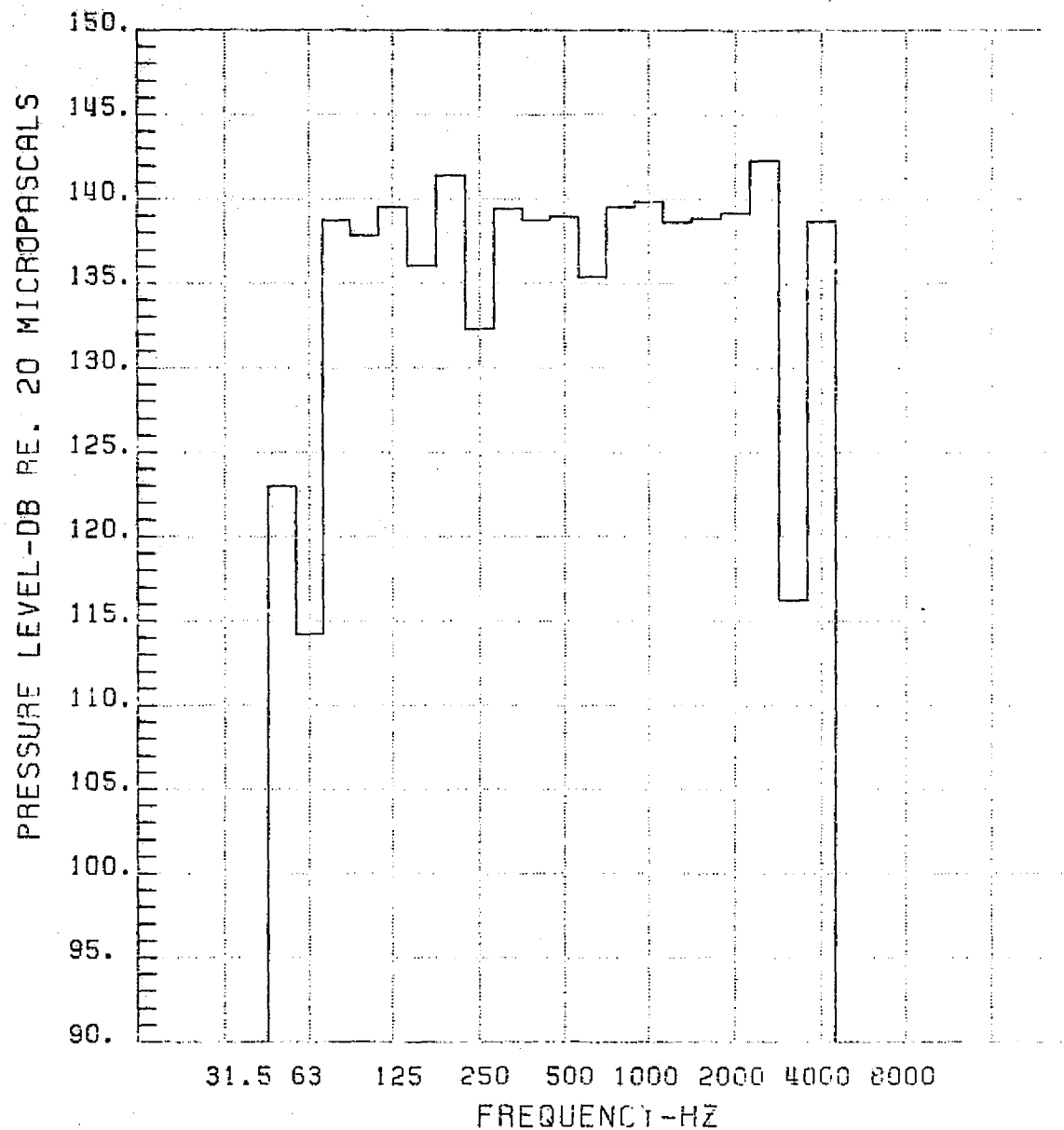
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=171.6 DEG C (341. DEG F).  
AIR FLOW=6.44 KG/SEC (14.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: 11 RUN NUMBER: 5



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP= 171.6 DEG C (341. DEG F),  
AIR FLOW= 6.44 KG/SEC (14.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 3. GROUP: II RUN NUMBER: 5



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

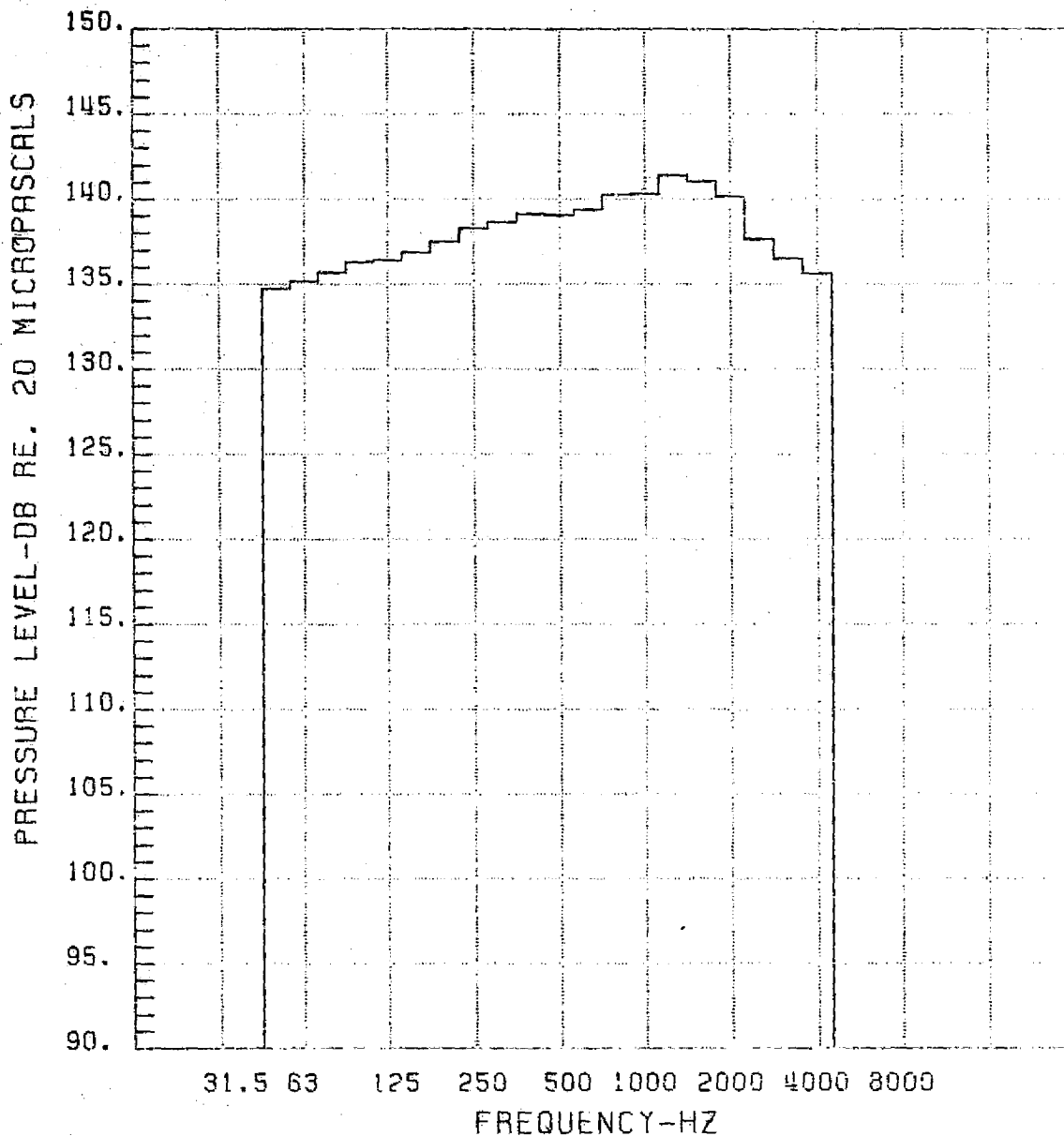
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP= 171.6 DEG C (341. DEG F),  
AIR FLOW= 6.44 KG/SEC (14.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

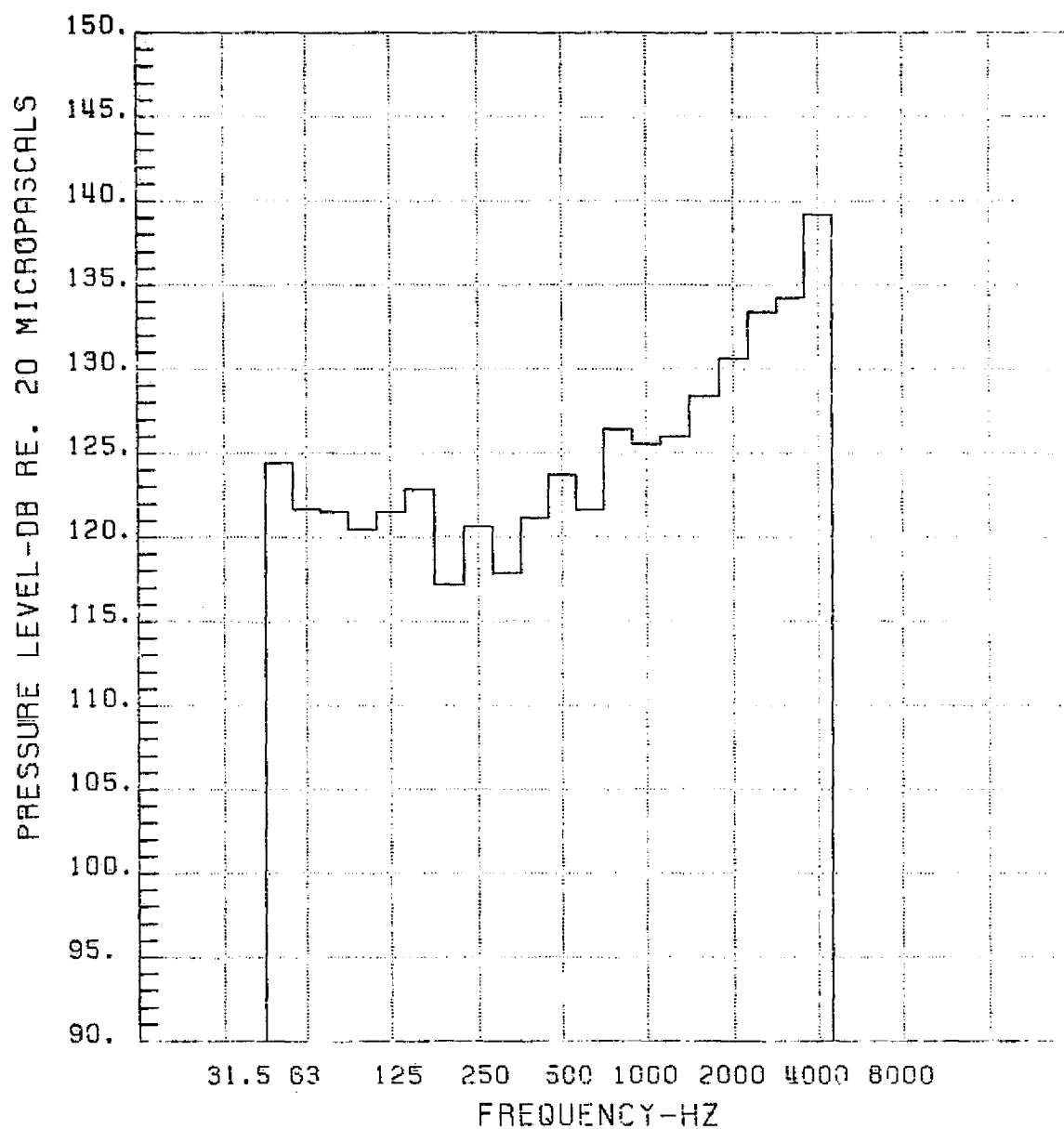
GROUP: 11

RUN NUMBER: 5



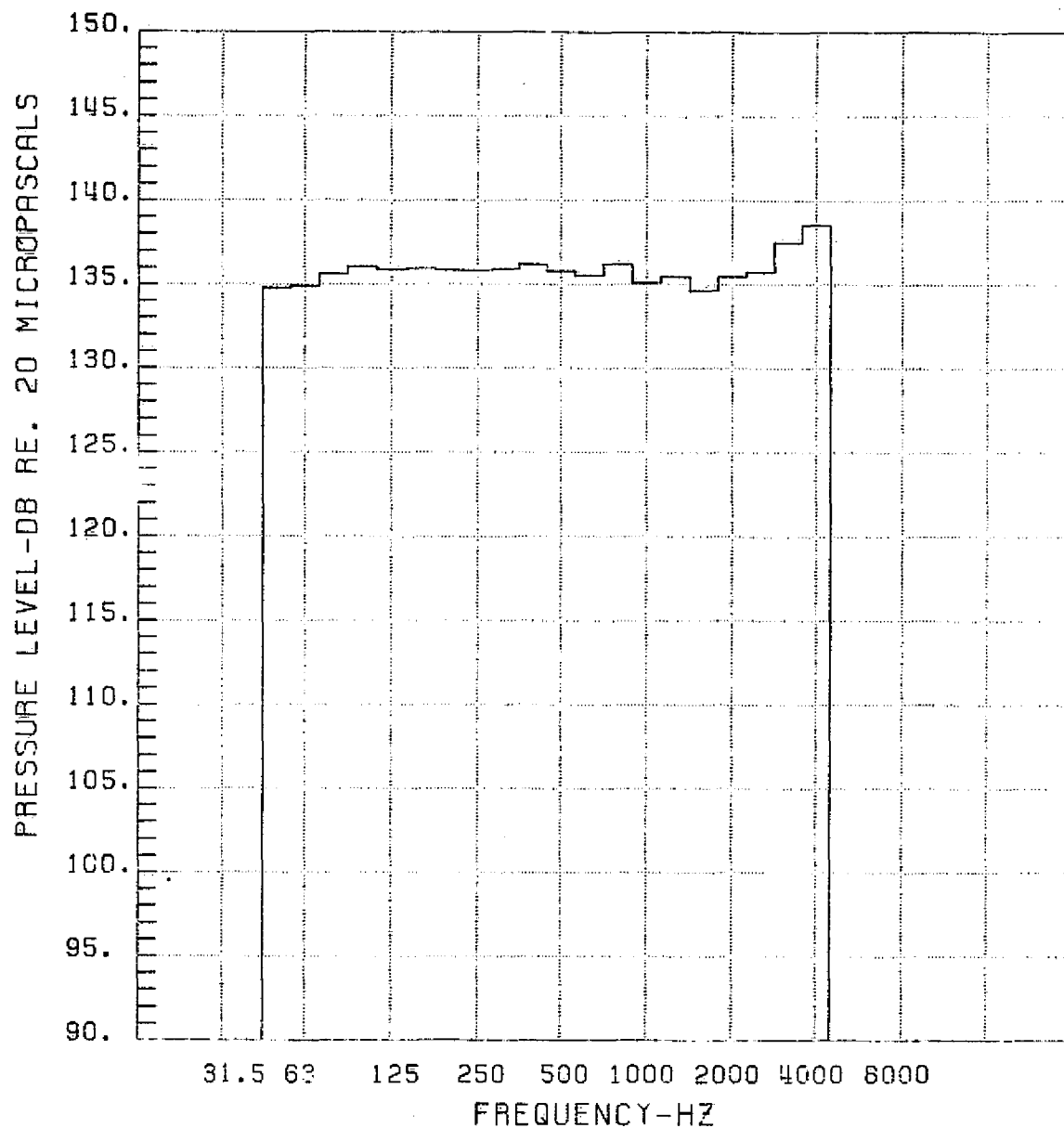
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP= 171.6 DEG C (341. DEG F),  
AIR FLOW= 6.44 KG/SEC (14.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: II RUN NUMBER: 5



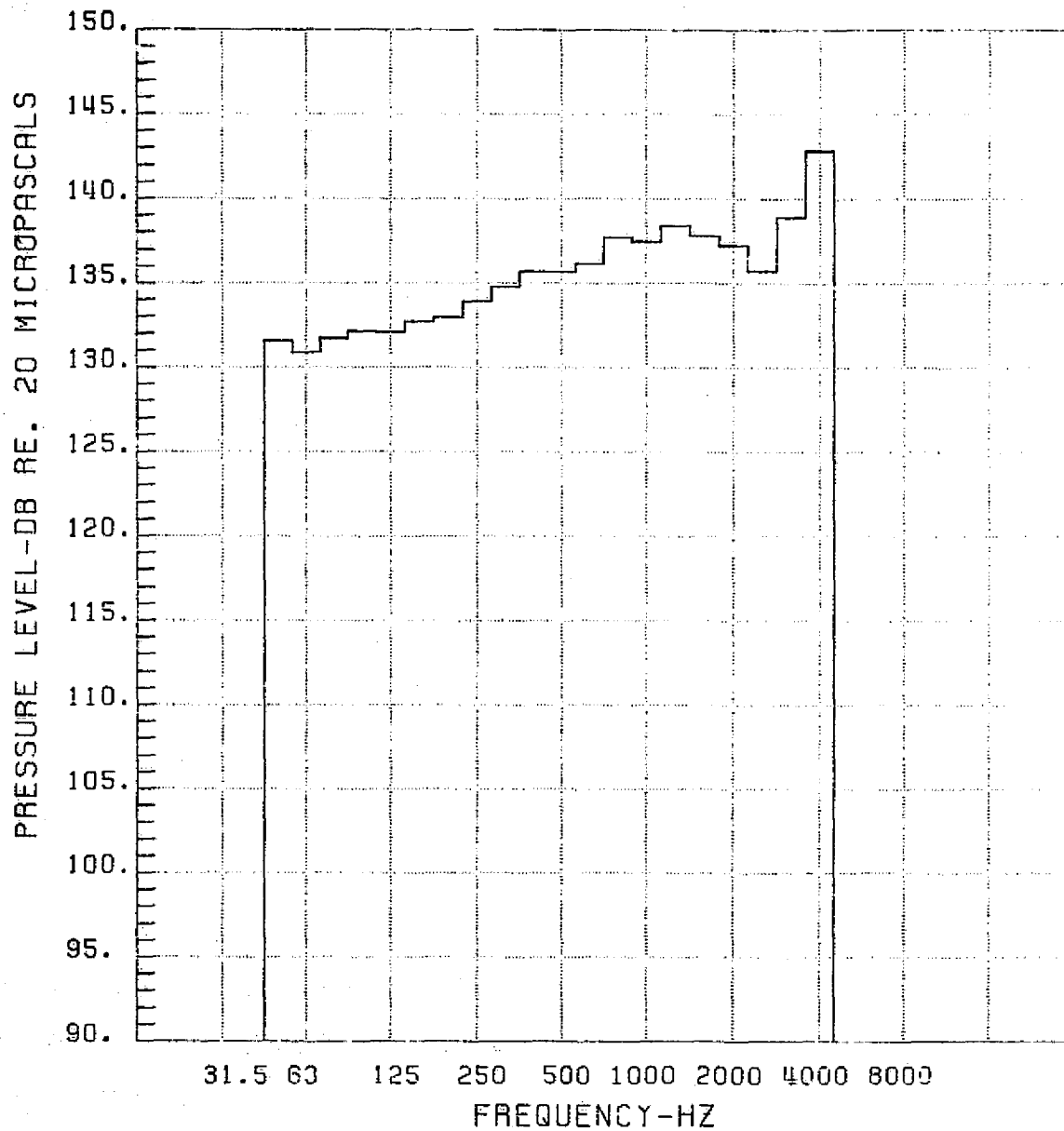
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=171.6 DEG C (341. DEG F),  
AIR FLOW=6.44 KG/SEC (14.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/17-21/77  
PROBE NUMBER: 6. GROUP: II RUN NUMBER: 5



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

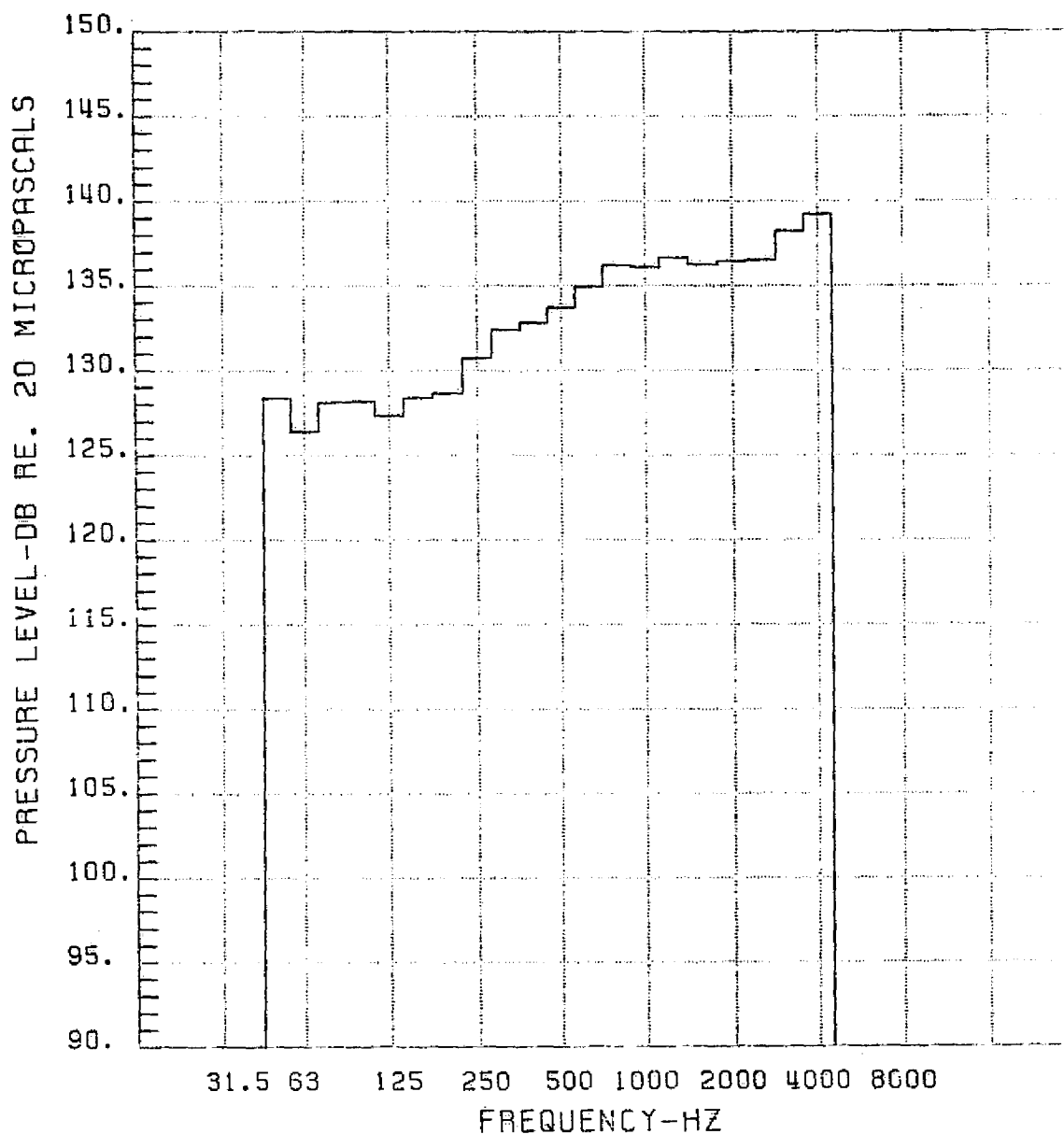
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 447. KPA (64.8 PSIA), COMB EXIT TEMP=203.2 DEG C (396. DEG F),  
AIR FLOW=7.94 KG/SEC (17.5 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: II RUN NUMBER: 8



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

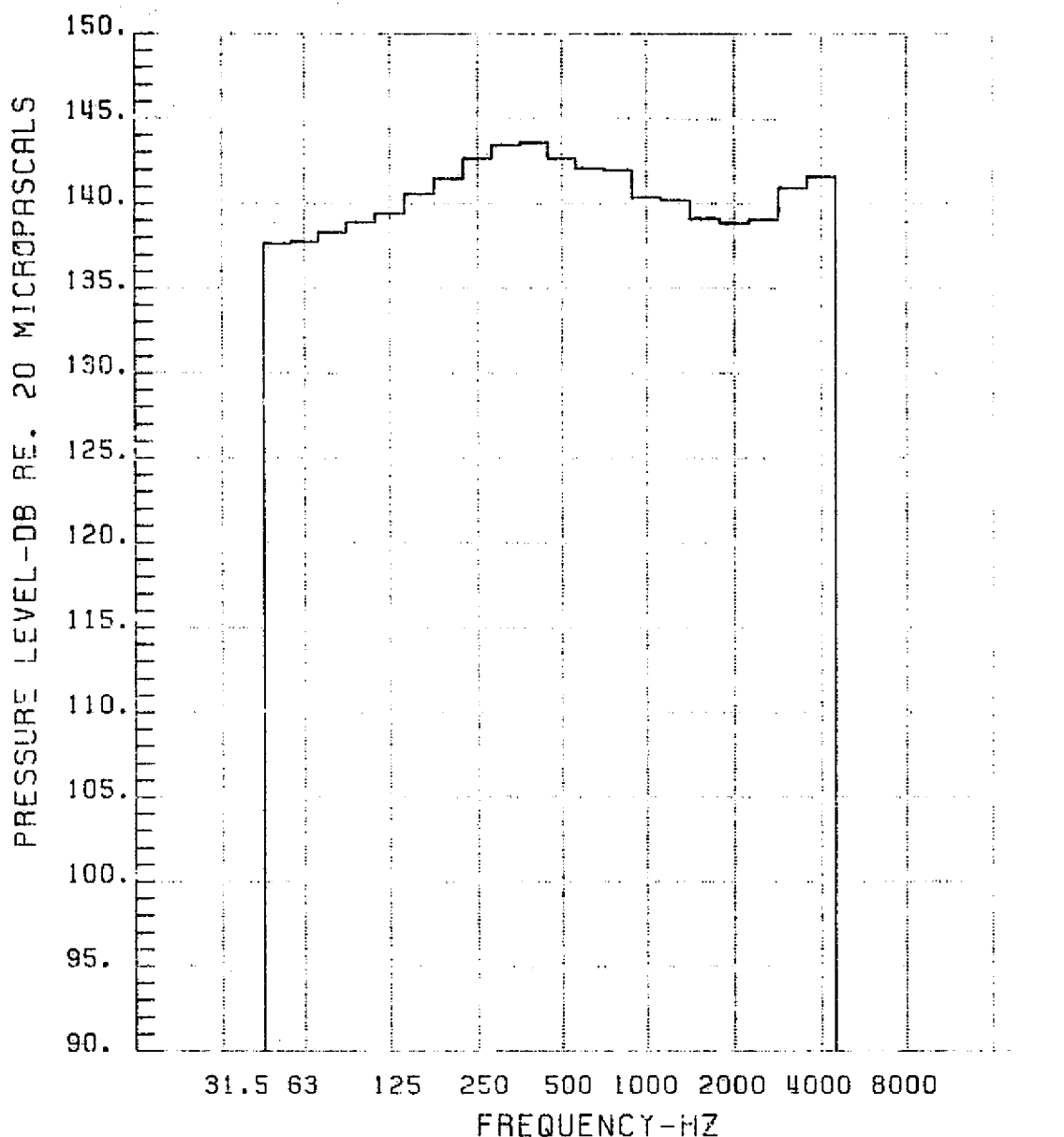
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 447. KPA (64.6 PSIA), COMB EXIT TEMP=203.2 DEG C (398. DEG F),  
AIR FLOW=7.94 KG/SEC (17.5 #/SEC), FUEL FLOW=0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 2. GROUP: II RUN NUMBER: 8





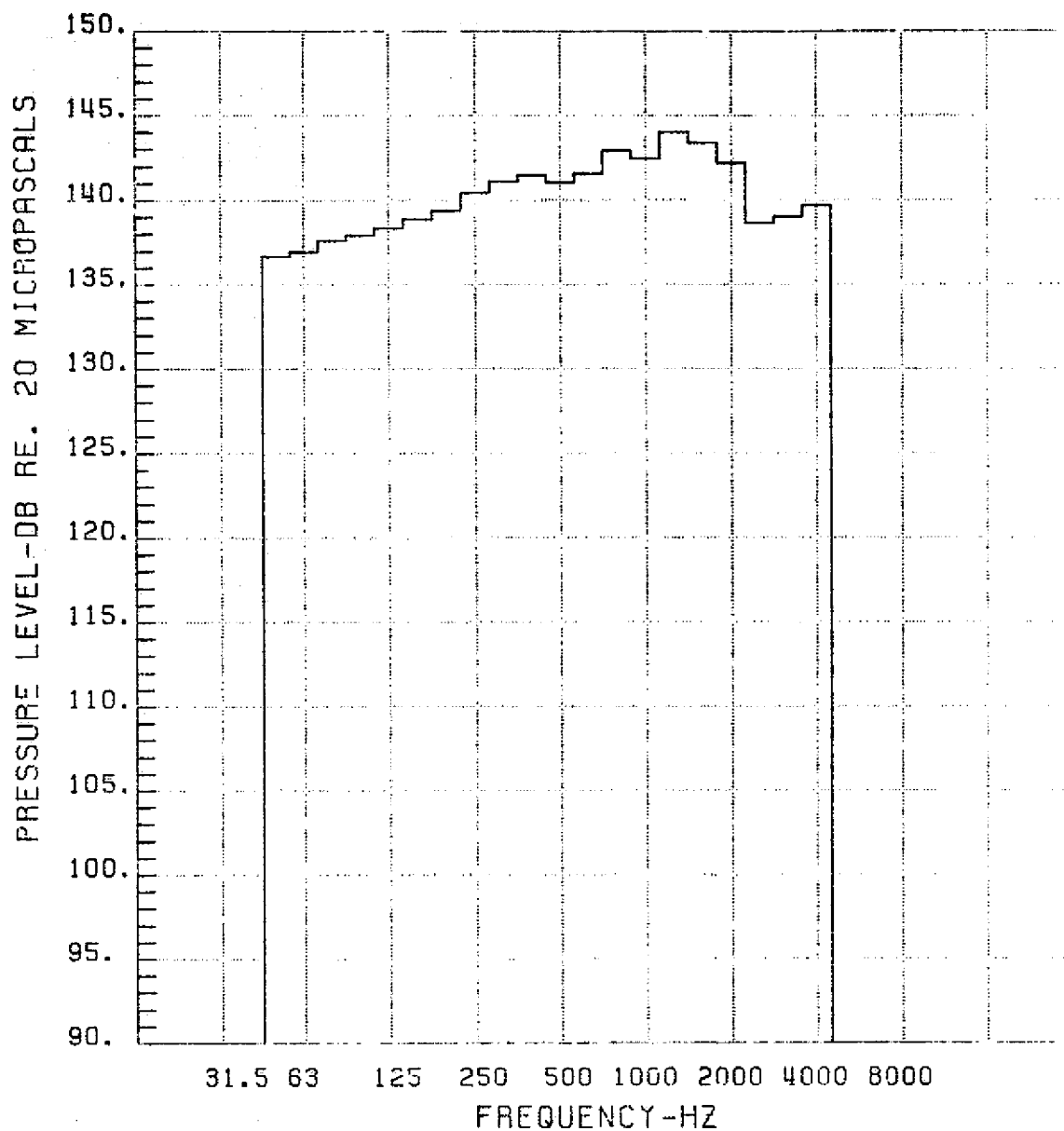
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 447. KPA (64.8 PSIA), COMB EXIT TEMP=203.2 DEG C (398. DEG F),  
AIR FLOW=7.94 KG/SEC (17.5 #/SEC), FUEL FLOW=0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 3. GROUP: 11 RUN NUMBER: 8



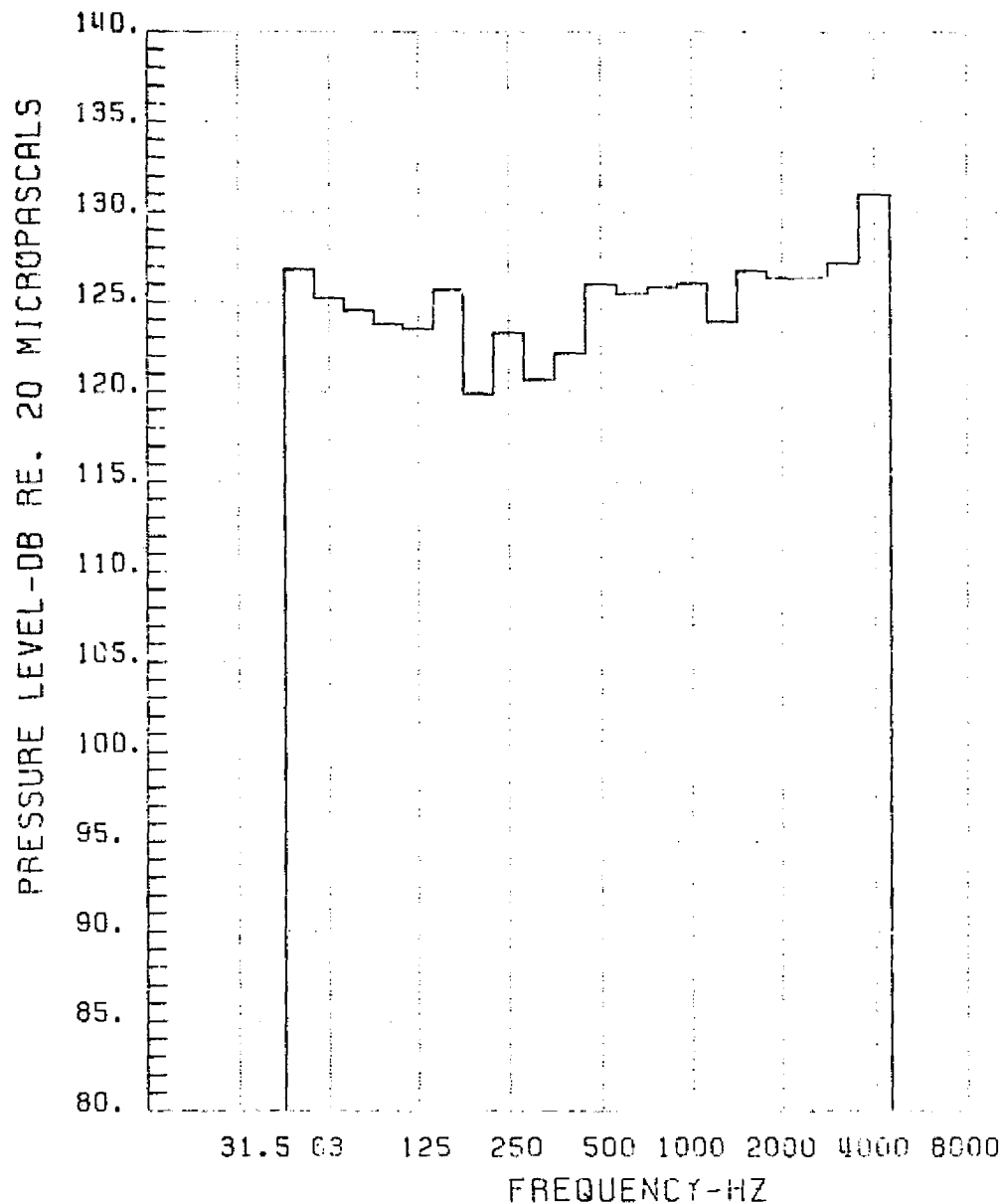
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 447. KPA (64.8 PSIA), COMB EXIT TEMP= 203.2 DEG C (398. DEG F),  
AIR FLOW= 7.94 KG/SEC (17.5 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: 11 RUN NUMBER: 8



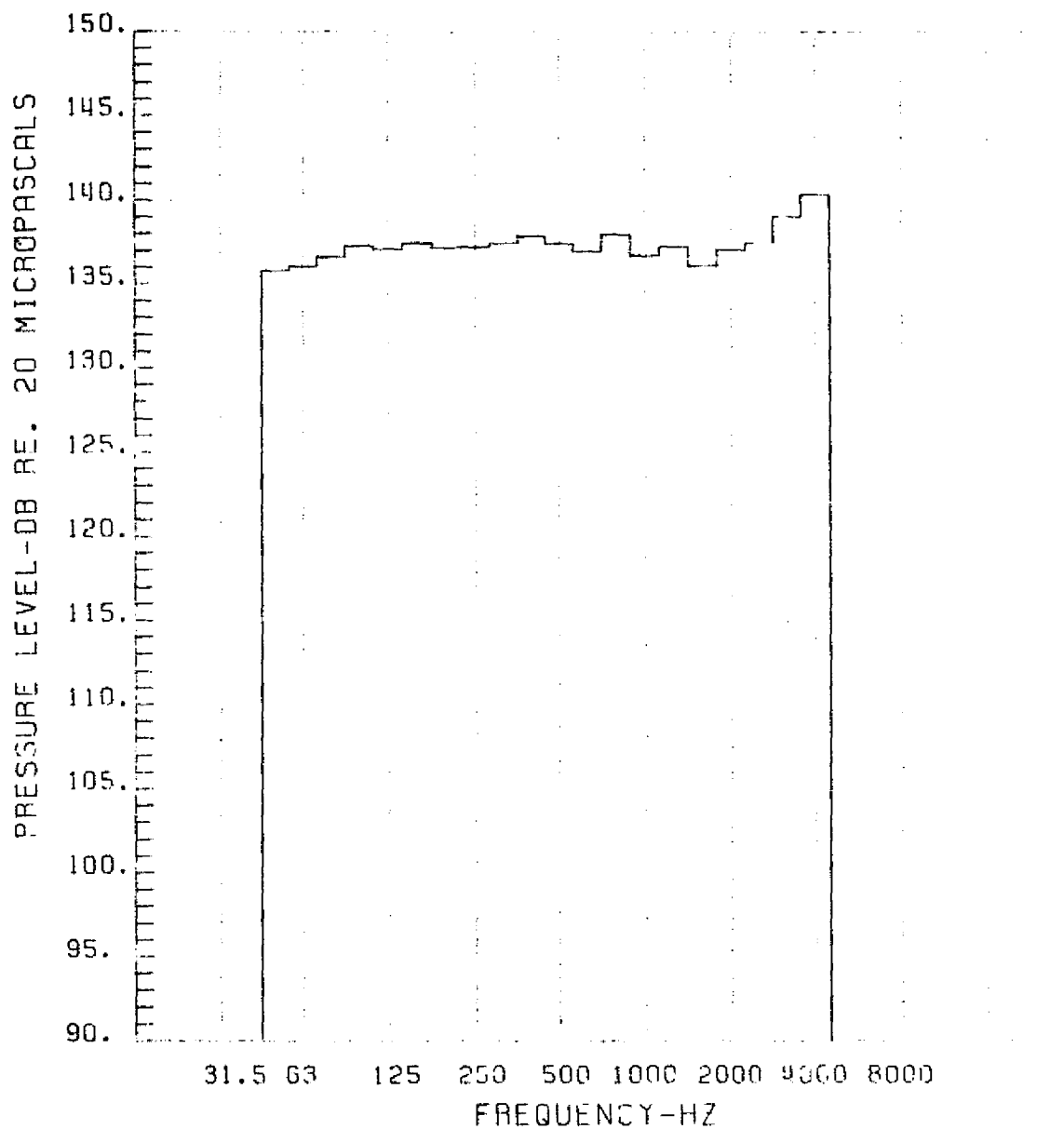
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 447. KPA (64.8 PSIA), COMB EXIT TEMP= 203.2 DEG C (398. DEG F),  
AIR FLOW= 7.94 KG/SEC (17.5 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: II RUN NUMBER: 8



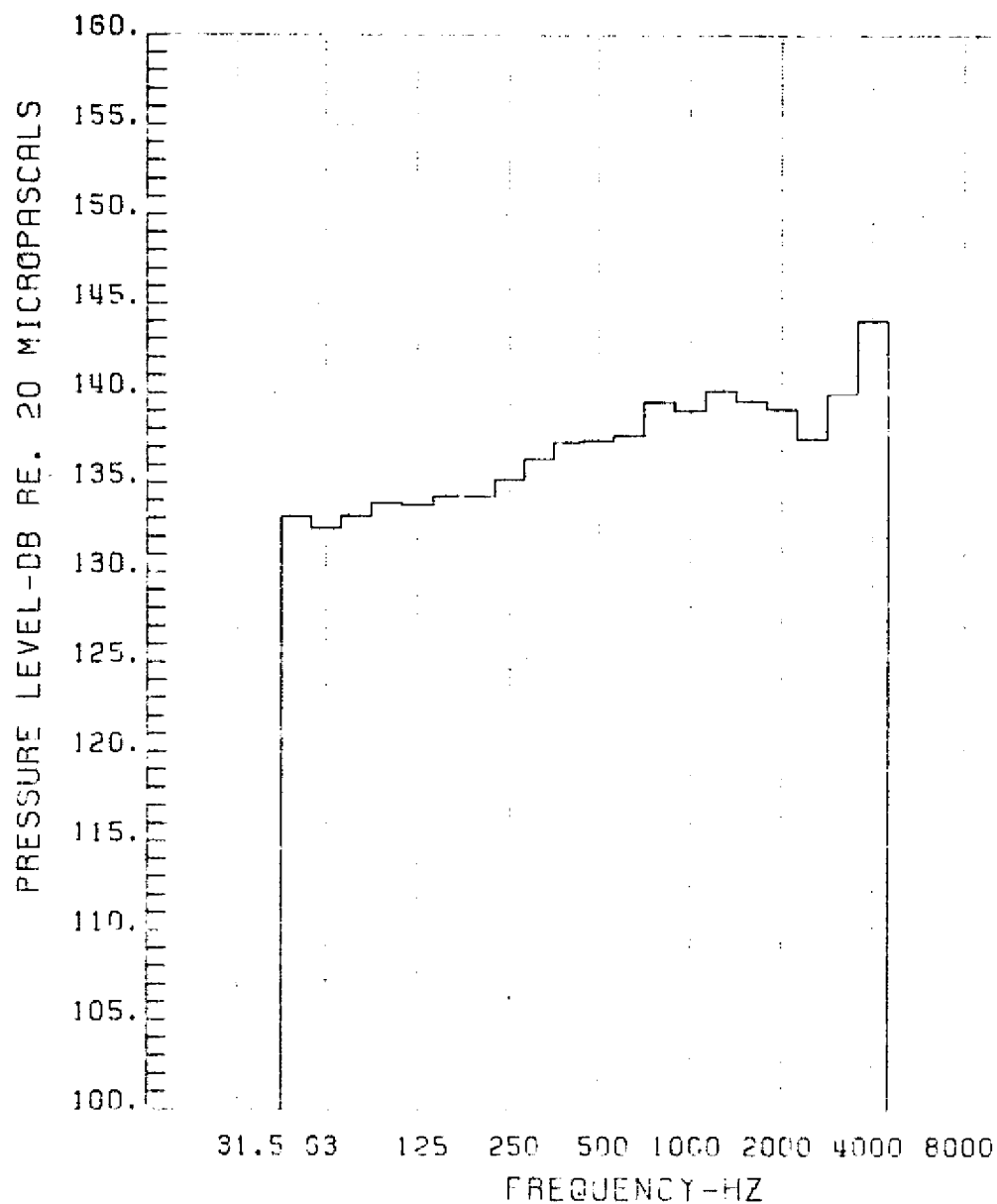
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06467  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 447. KPA (64.8 PSIA), COMB EXIT TEMP= 203.2 DEG C (396. DEG F),  
AIR FLOW= 7.94 KG/SEC (17.5 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 6. GROUP: II RUN NUMBER: 8



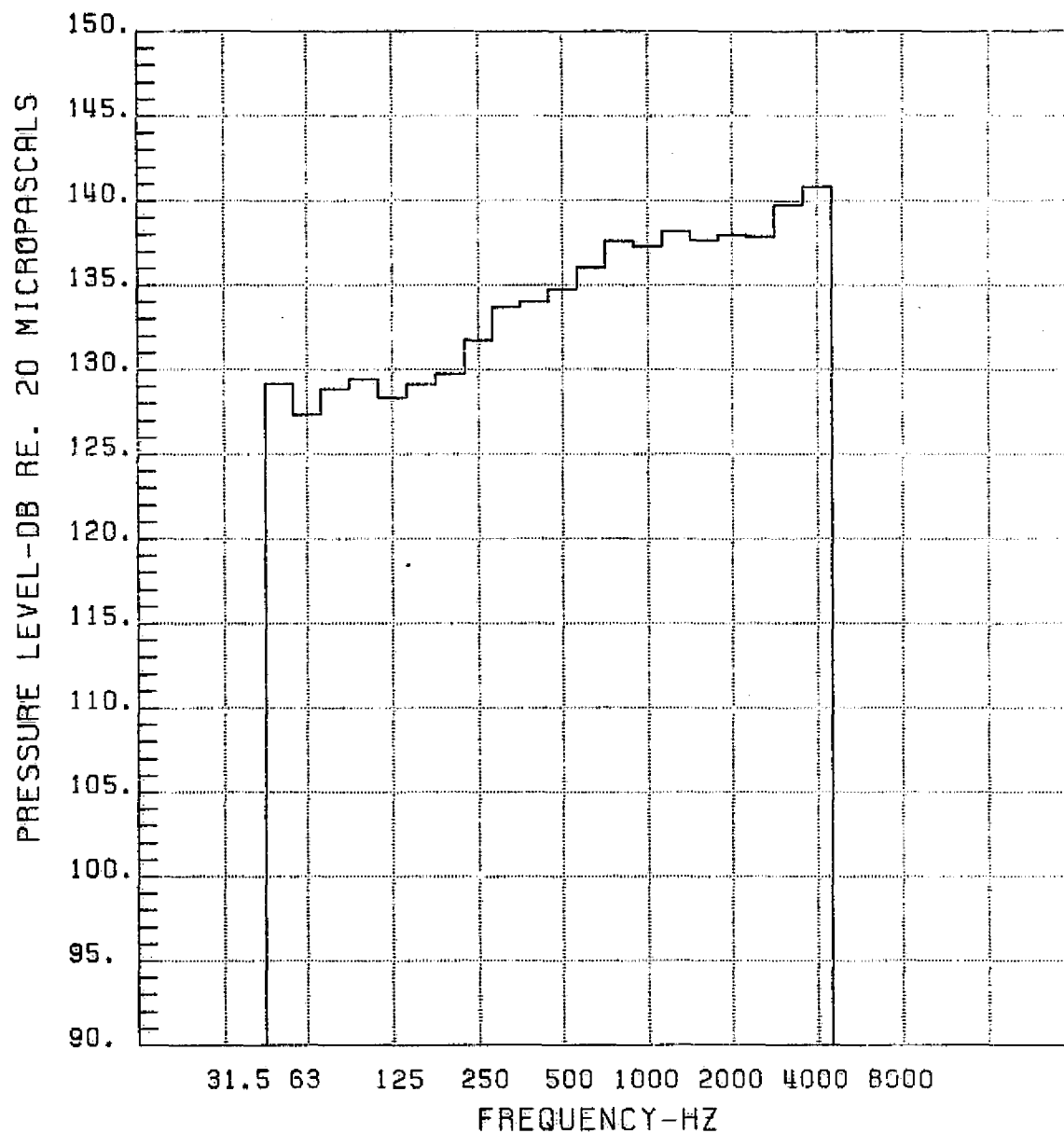
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06407  
**ONE THIRD OCTAVE BAND ANALYSIS**

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.4 PSI A), COMB EXIT TEMP= 232.4 DEG C (450. DEG F),  
AIR FLOW= 9.62 KG/SEC (21.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: 11 RUN NUMBER: 9



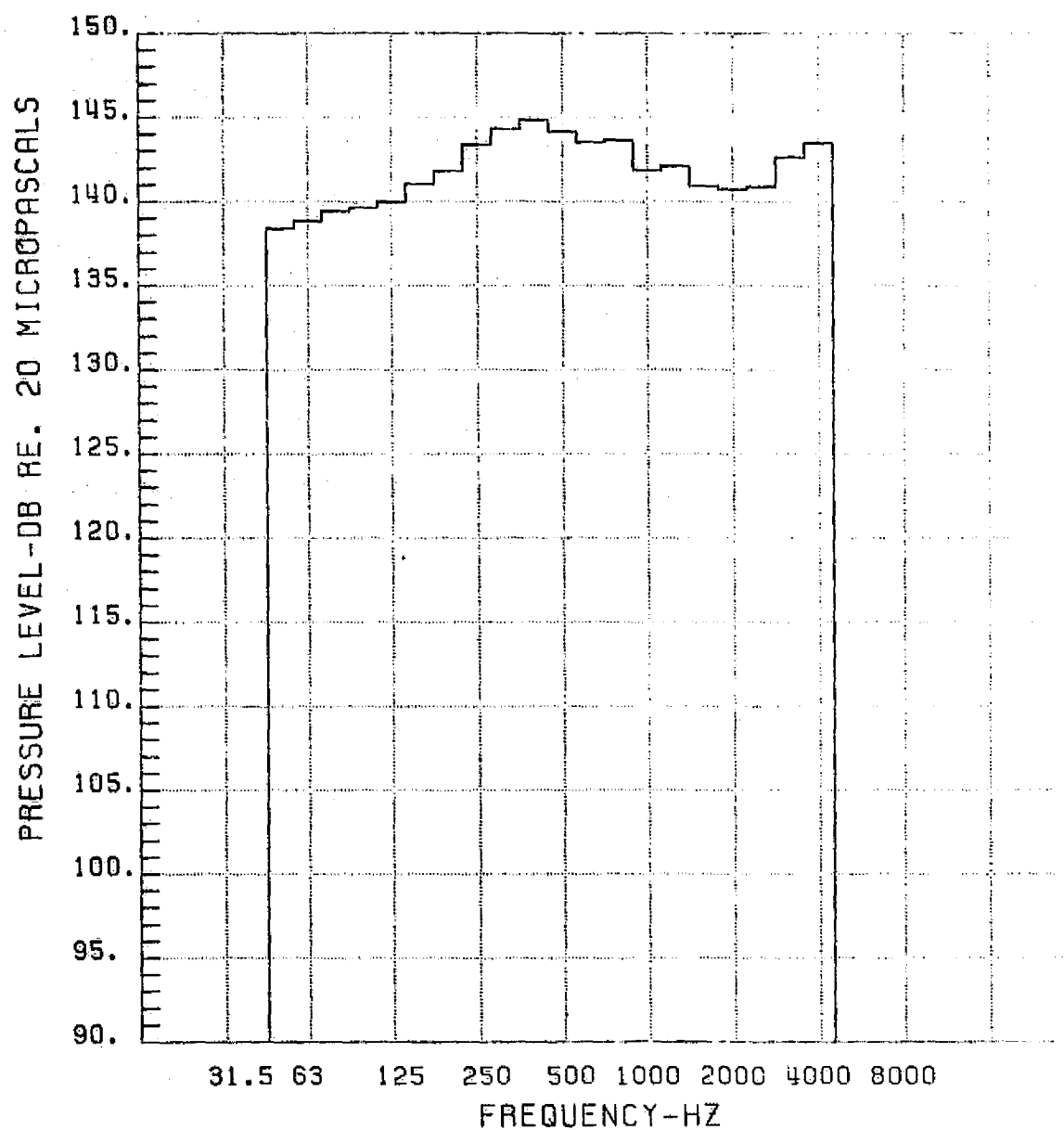
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.4 PSIA), COMB EXIT TEMP=232.4 DEG C (450. DEG F),  
AIR FLOW=9.62 KG/SEC (21.2 #/SEC), FUEL FLOW= 0. KG/Hr (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 2. GROUP: 11 RUN NUMBER: 9



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

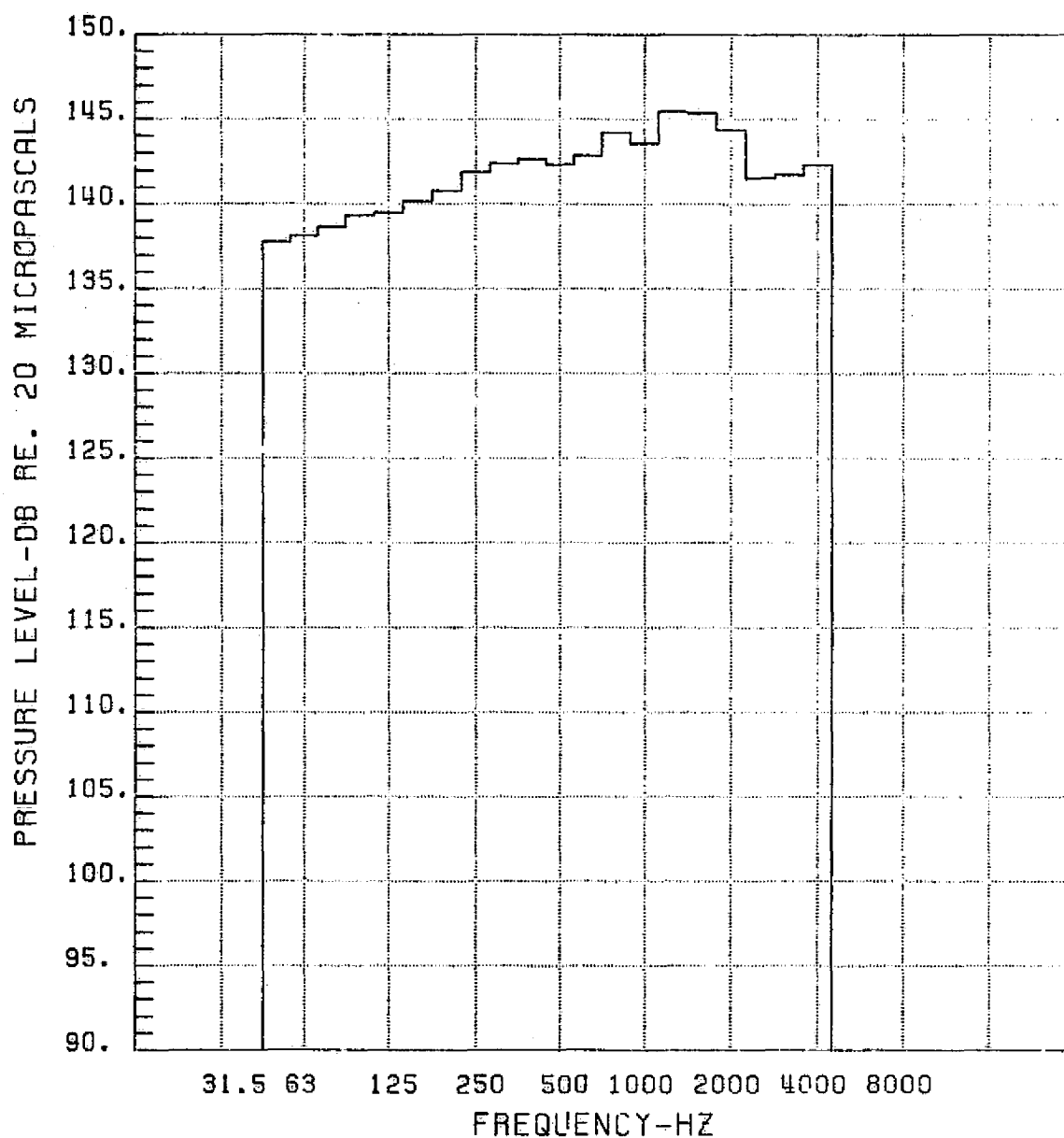
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.4 PSIA), COMB EXIT TEMP=232.4 DEG C (450. DEG F),  
AIR FLOW=9.62 KG/SEC (21.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 3. GROUP: II RUN NUMBER: 9



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.4 PSIA), COMB EXIT TEMP= 232.4 DEG C (450. DEG F),  
AIR FLOW= 9.62 KG/SEC (21.2 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: II RUN NUMBER: 9





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

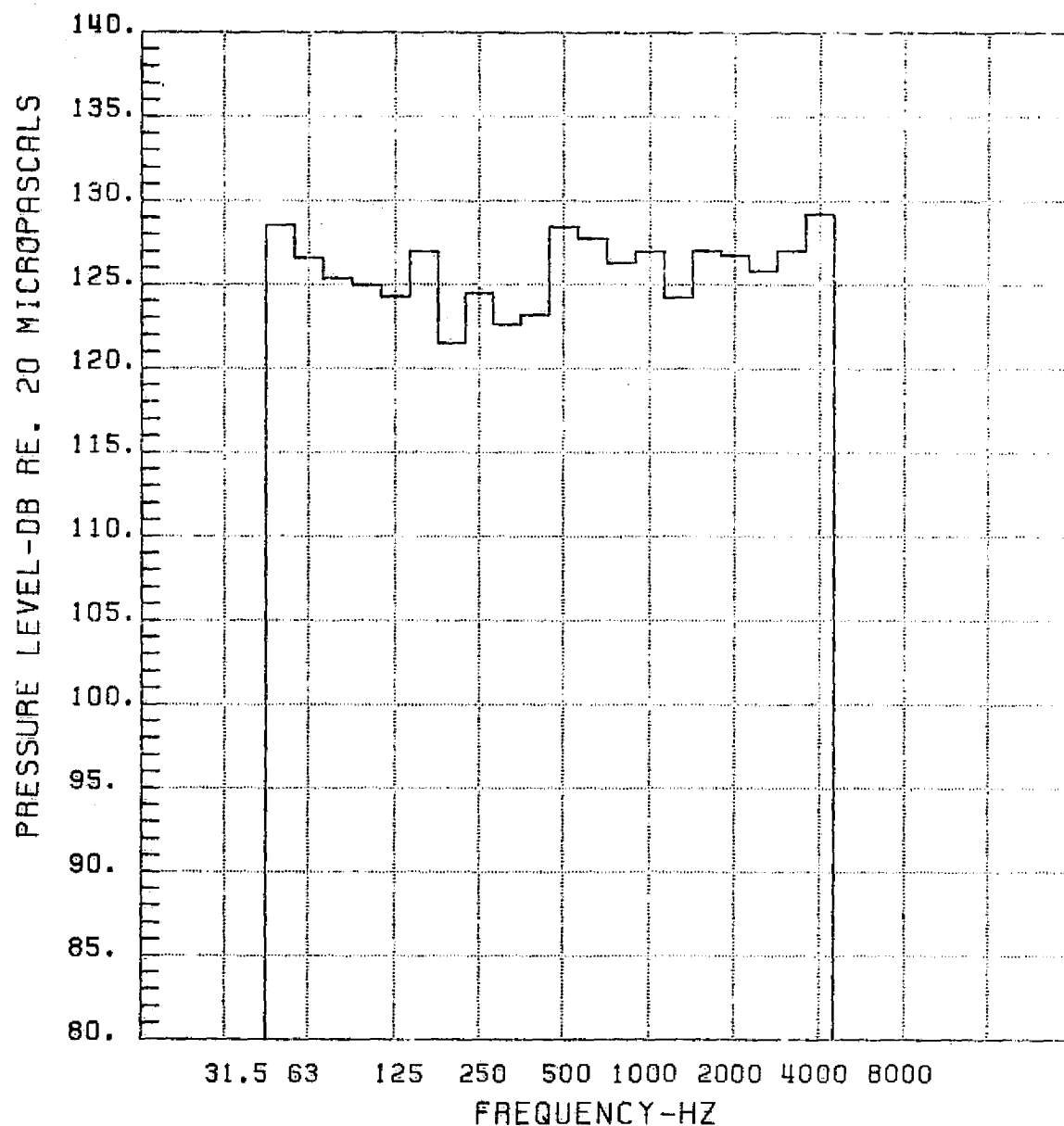
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.4 PSIA), COMB EXIT TEMP= 232.4 DEG C (450. DEG F),  
AIR FLOW= 9.62 KG/SEC (21.2 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: II

RUN NUMBER: 9



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06407

### ONE THIRD OCTAVE BAND ANALYSIS

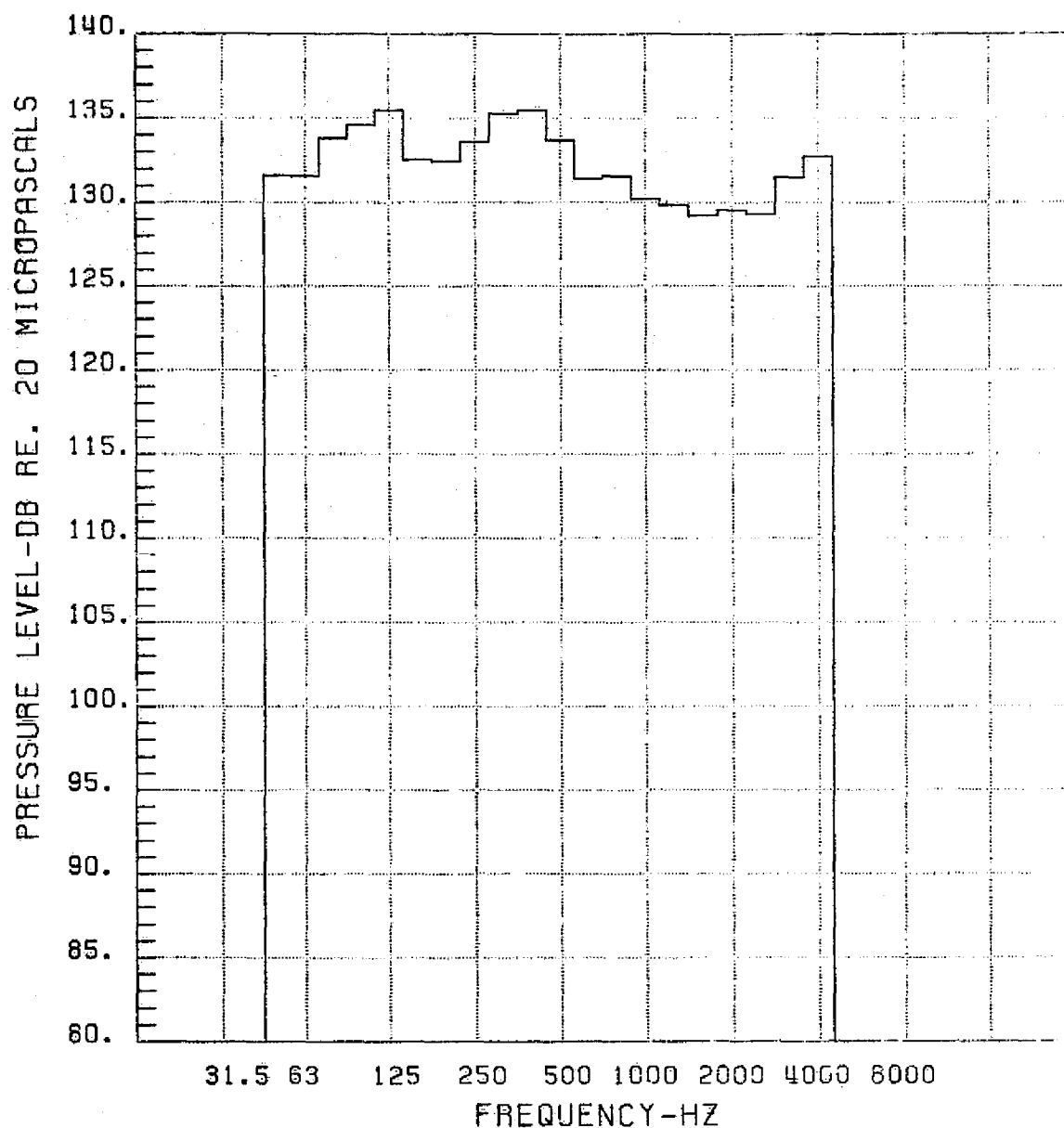
TITLE: ZERO FUEL FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.4 PSIA), COMB EXIT TEMP=232.4 DEG C (450. DEG F),  
AIR FLOW=9.62 KG/SEC (21.2 \*/SEC), FUEL FLOW=0. KG/HR (0. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: II

RUN NUMBER: 9



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

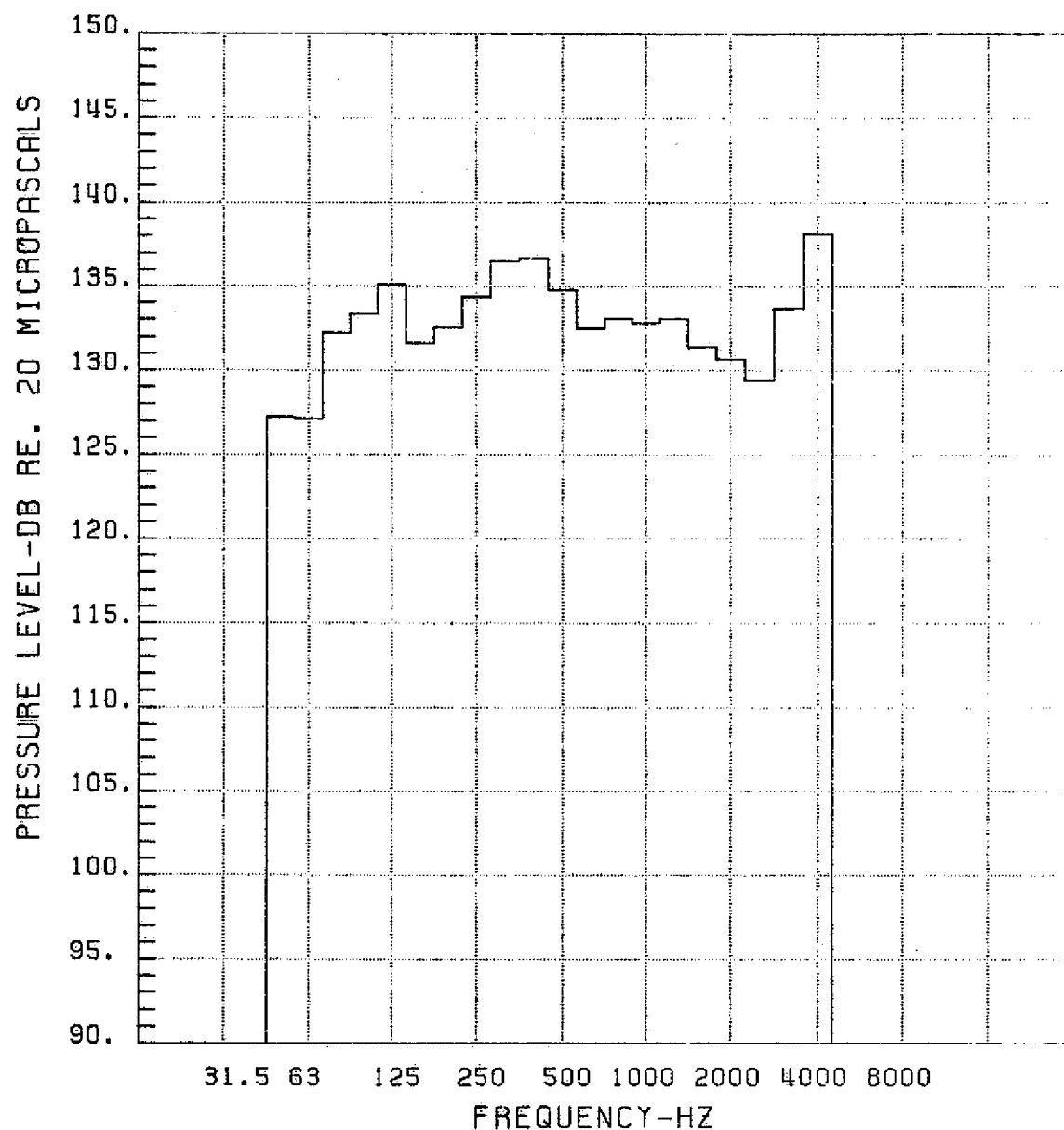
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP=582.1 DEG C (1080. DEG F),  
AIR FLOW=4.46 KG/SEC (9.8 #/SEC), FUEL FLOW= 188. KG/HR (416. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: III

RUN NUMBER: 19



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

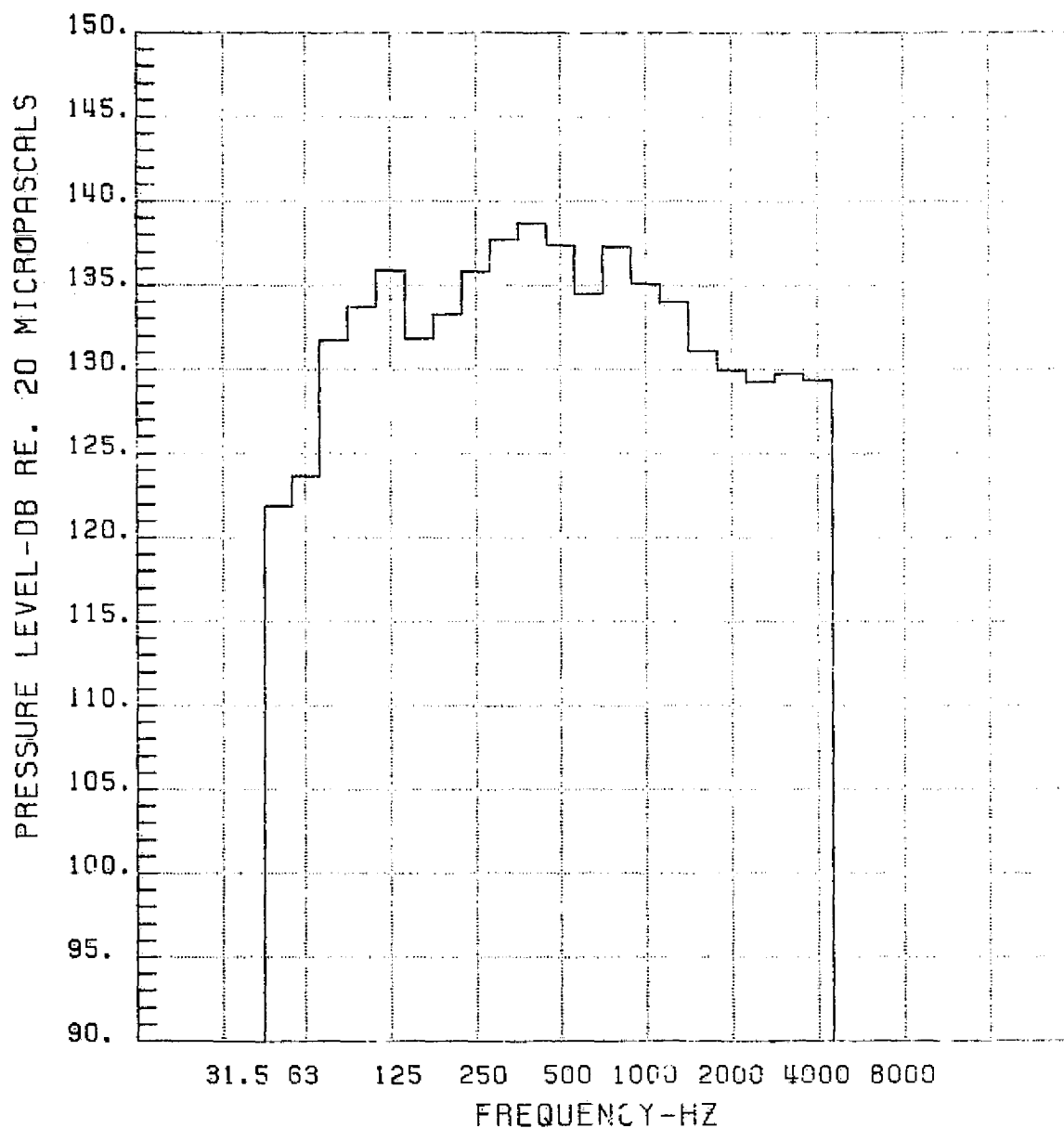
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP=582.1 DEG C (1080. DEG F),  
AIR FLOW=4.46 KG/SEC (9.8 #/SEC), FUEL FLOW=188. KG/HR (416. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: III

RUN NUMBER: 19



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

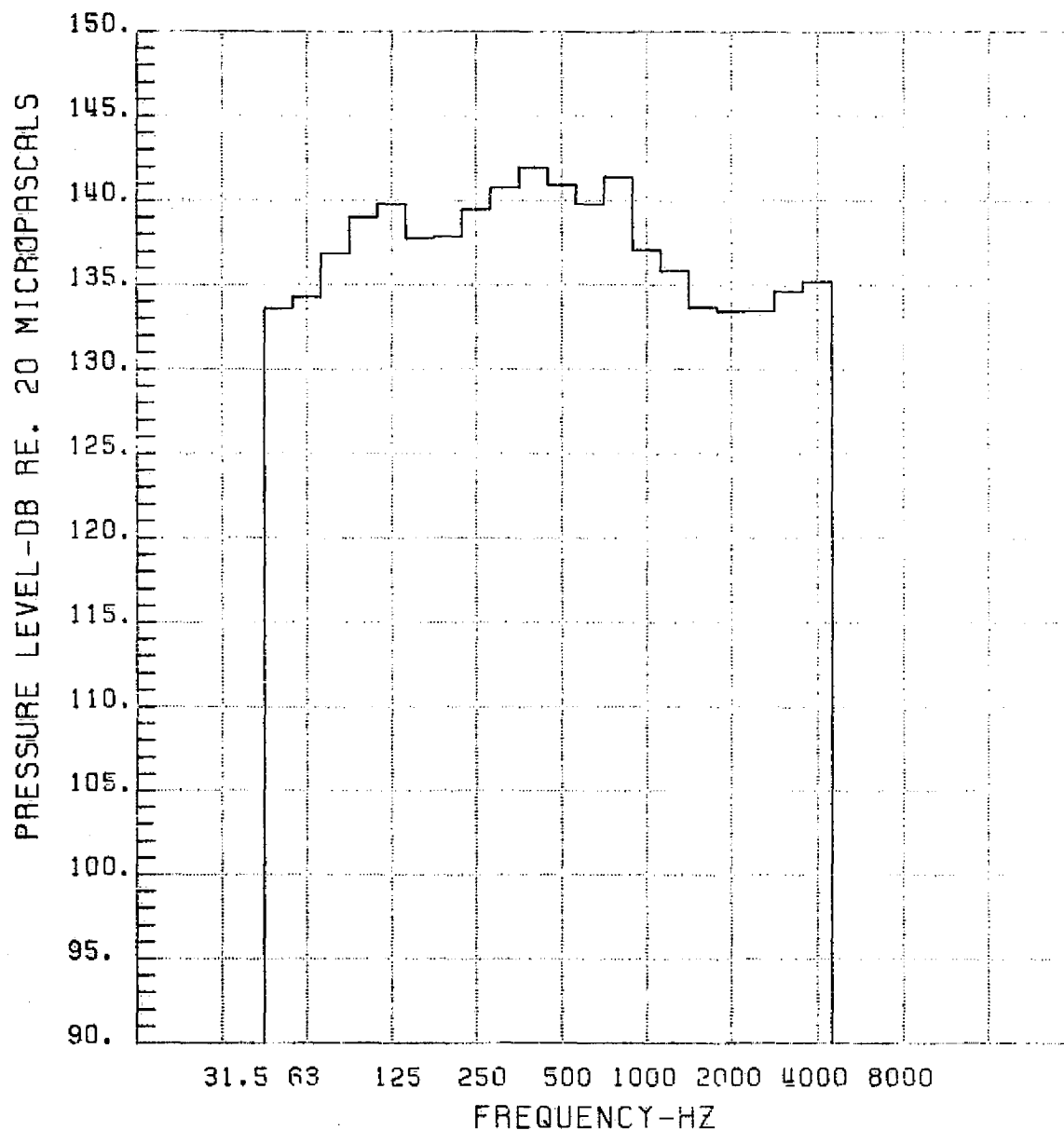
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP= 582.1 DEG C (1080. DEG F),  
AIR FLOW= 4.46 KG/SEC (9.8 #/SEC), FUEL FLOW= 188. KG/HR (416. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

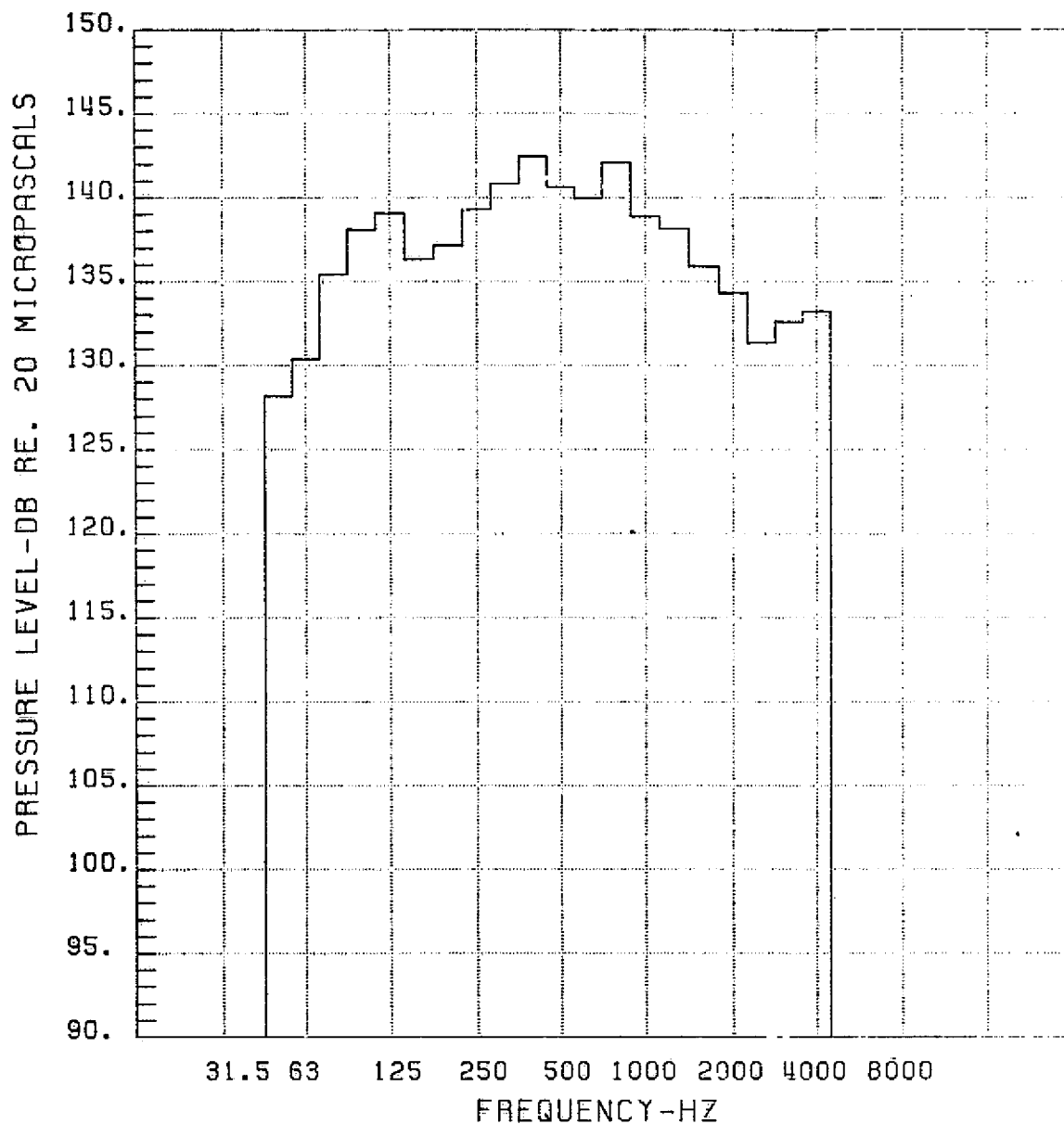
GROUP: III

RUN NUMBER: 19



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP=582.1 DEG C (1080. DEG F),  
AIR FLOW=4.46 KG/SEC (9.8 #/SEC), FUEL FLOW= 188. KG/HR (416. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: III RUN NUMBER: 19



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

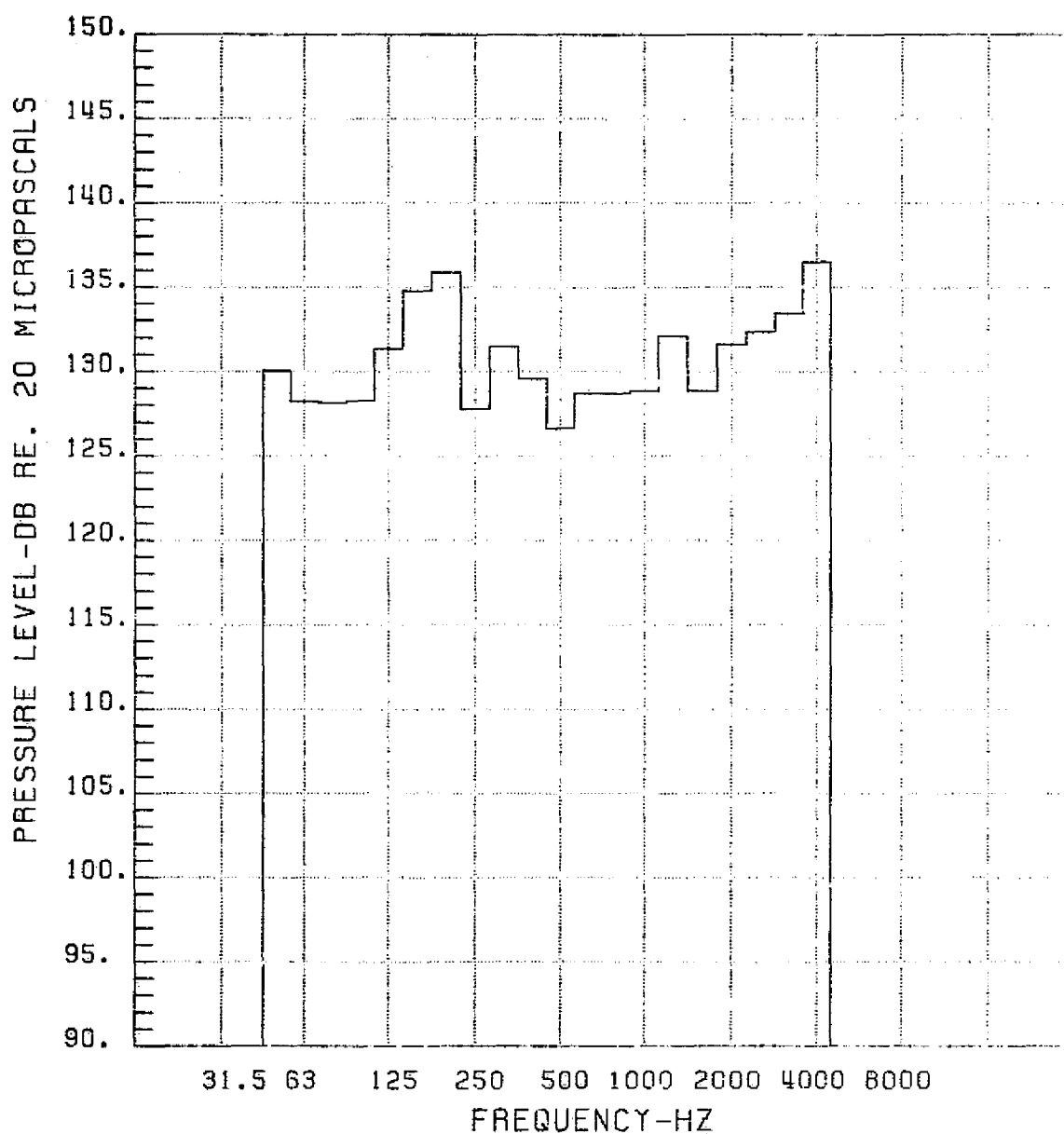
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 250. KPA (37.4 PSIA), COMB EXIT TEMP= 582.1 DEG C (1080. DEG F),  
AIR FLOW= 4.46 KG/SEC (9.8 #/SEC), FUEL FLOW= 188. KG/HR (416. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: III

RUN NUMBER: 19



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 258. KPA (37.4 PSIA), COMB EXIT TEMP=582.1 DEG C (1080. DEG F),  
AIR FLOW=4.46 KG/SEC (9.8 #/SEC), FUEL FLOW= 188. KG/HR (416. #/HR)

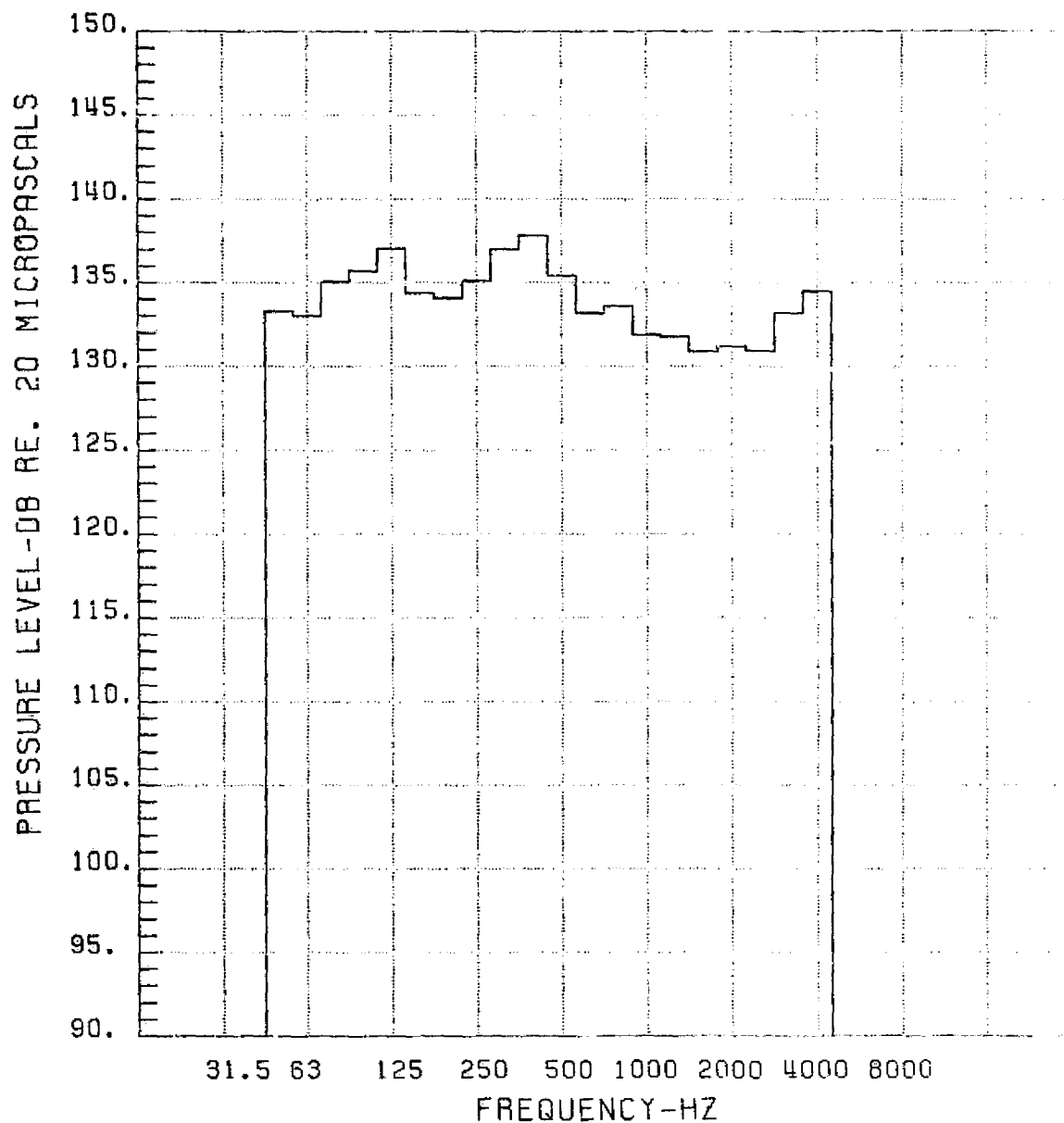
TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: III

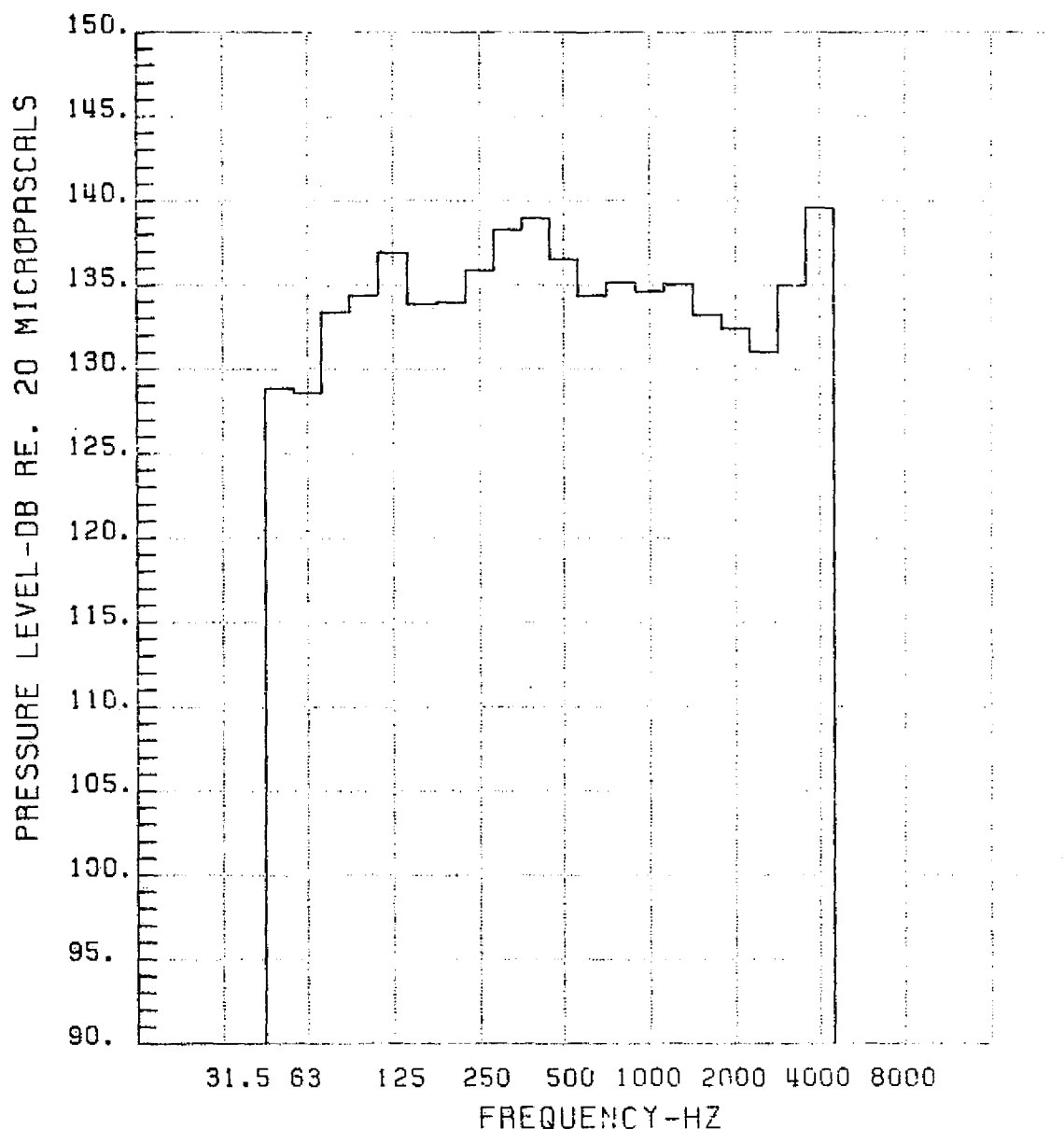
RUN NUMBER: 19





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 3.4. KPA (45.6 PSIA), COMB EXIT TEMP= 606.3 DEG C (1123. DEG F),  
AIR FLOW= 5.18 KG/SEC (11.4 #/SEC), FUEL FLOW= 219. KG/HR (483. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: III RUN NUMBER: 20



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

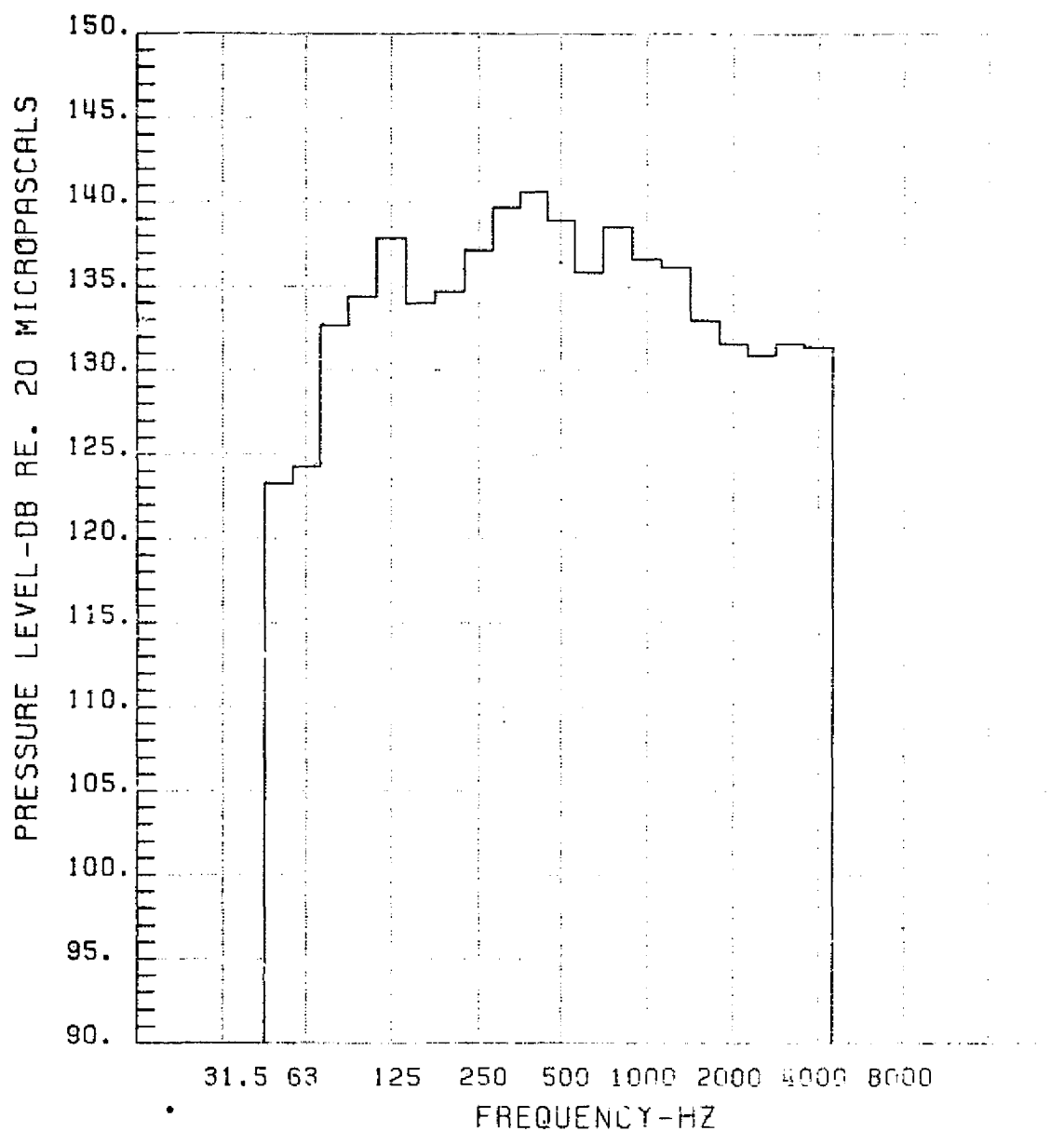
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 314. KPA (45.6 PSIA), COMB EXIT TEMP=606.3 DEG C (1123. DEG F),  
AIR FLOW=5.18 KG/SEC (11.4 #/SEC), FUEL FLOW= 219. KG/HR (483. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

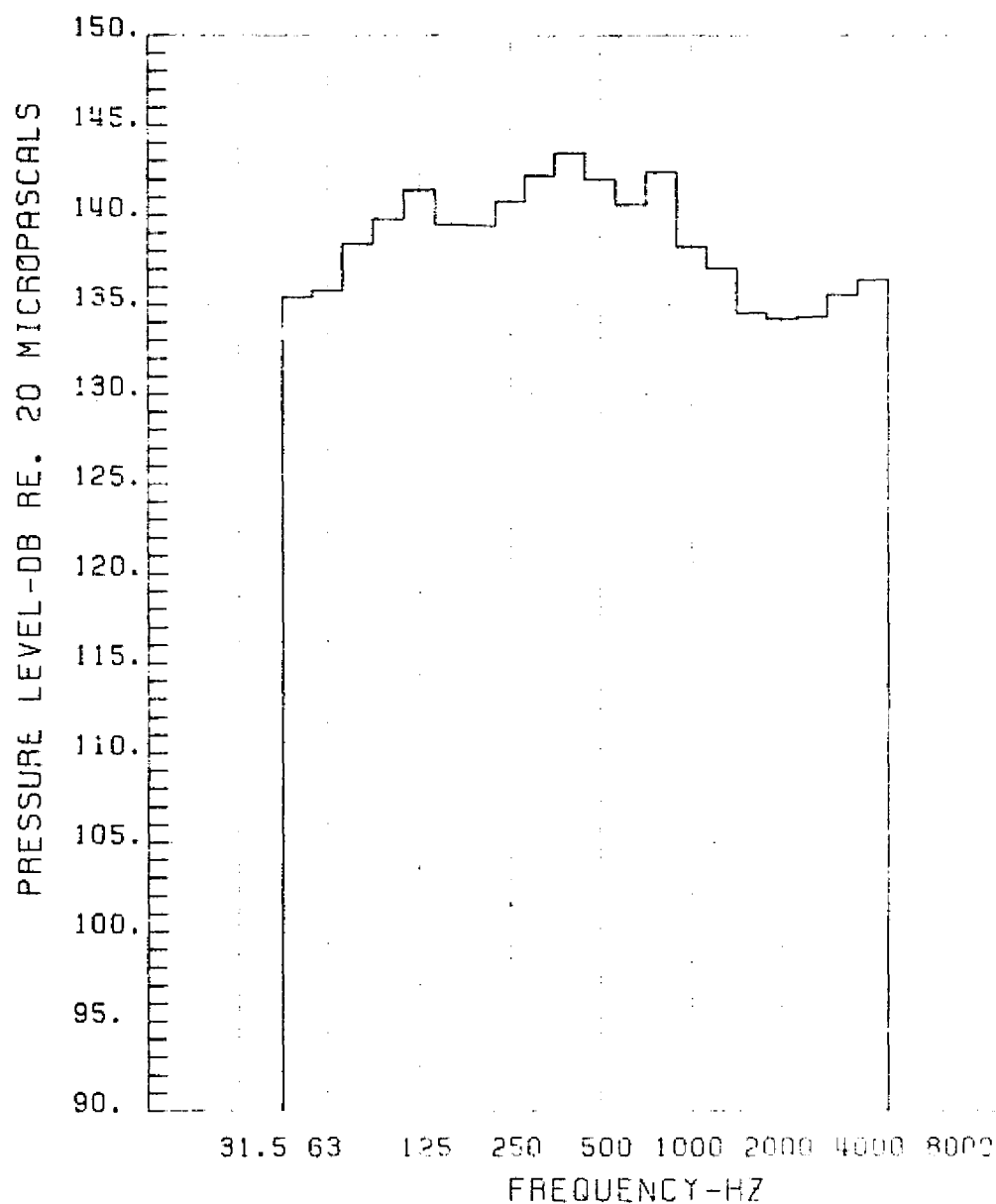
GROUP: III

RUN NUMBER: 20



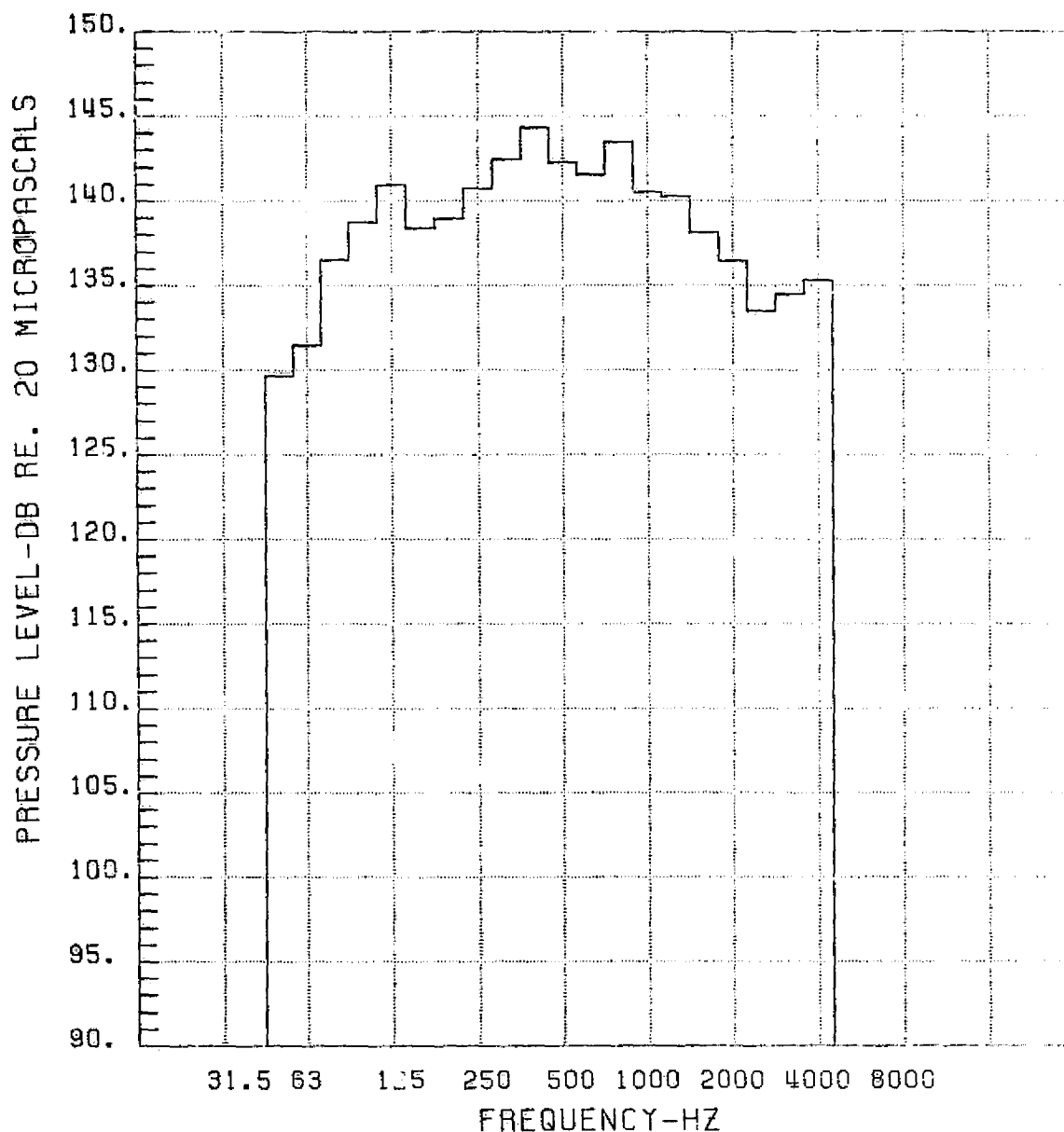
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 314. KPA (45.6 PSIA), COMB EXIT TEMP= 606.3 DEG C (1123. DEG F),  
AIR FLOW= 5.18 KG/SEC (11.4 #/SEC), FUEL FLOW= 219. KG/HR (483. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 3. GROUP: III RUN NUMBER: 20



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 314. KPA (45.6 PSIA), COMB EXIT TEMP= 606.3 DEG C (1123. DEG F),  
AIR FLOW= 5.18 KG/SEC (11.4 #/SEC), FUEL FLOW= 219. KG/HR (483. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: III RUN NUMBER: 20



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

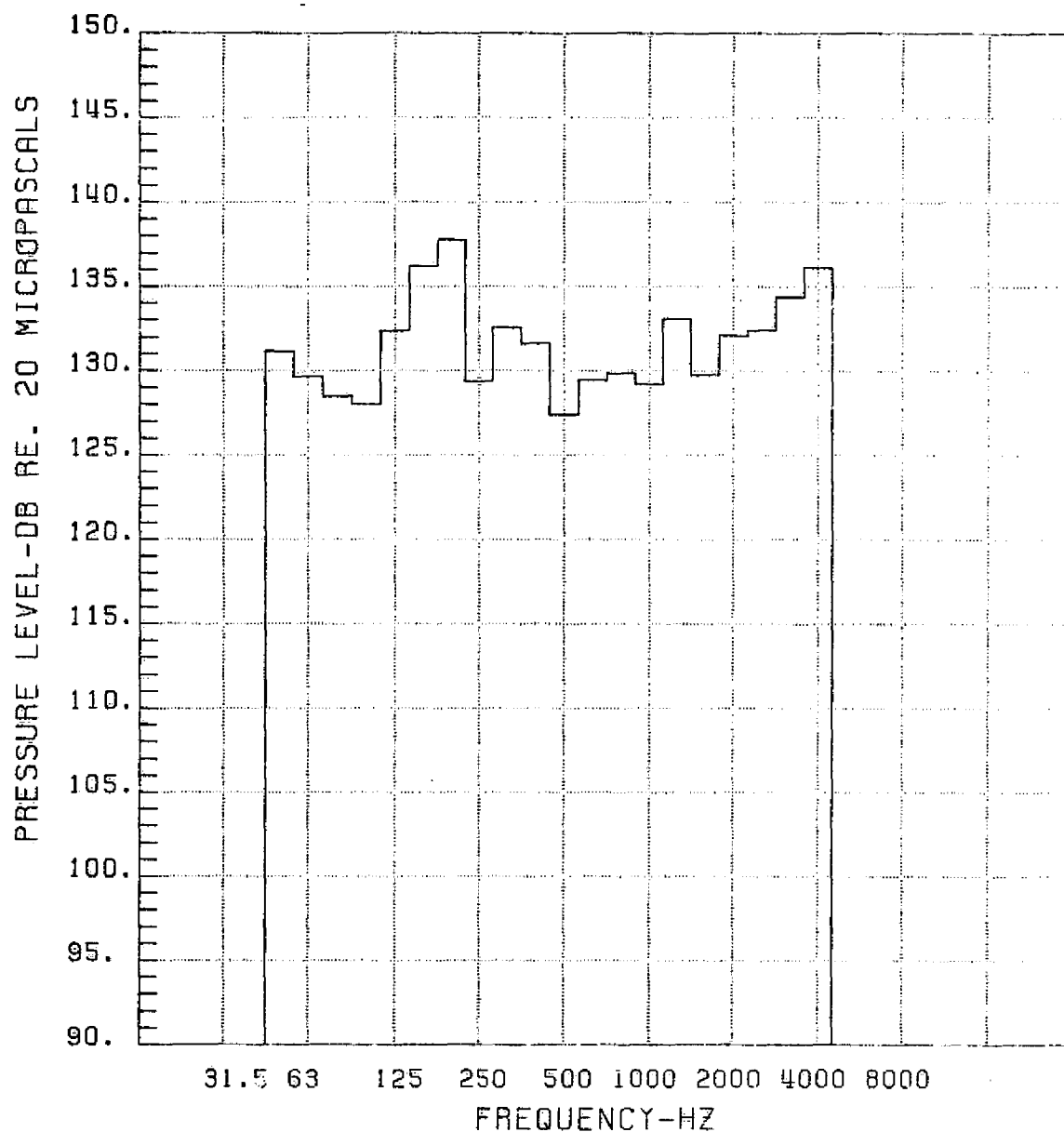
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 314. KPA (45.6 PSIA), COMB EXIT TEMP=606.3 DEG C (1123. DEG F),  
AIR FLOW=5.8 KG/SEC (11.4 #/SEC), FUEL FLOW= 219. KG/HR (483. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

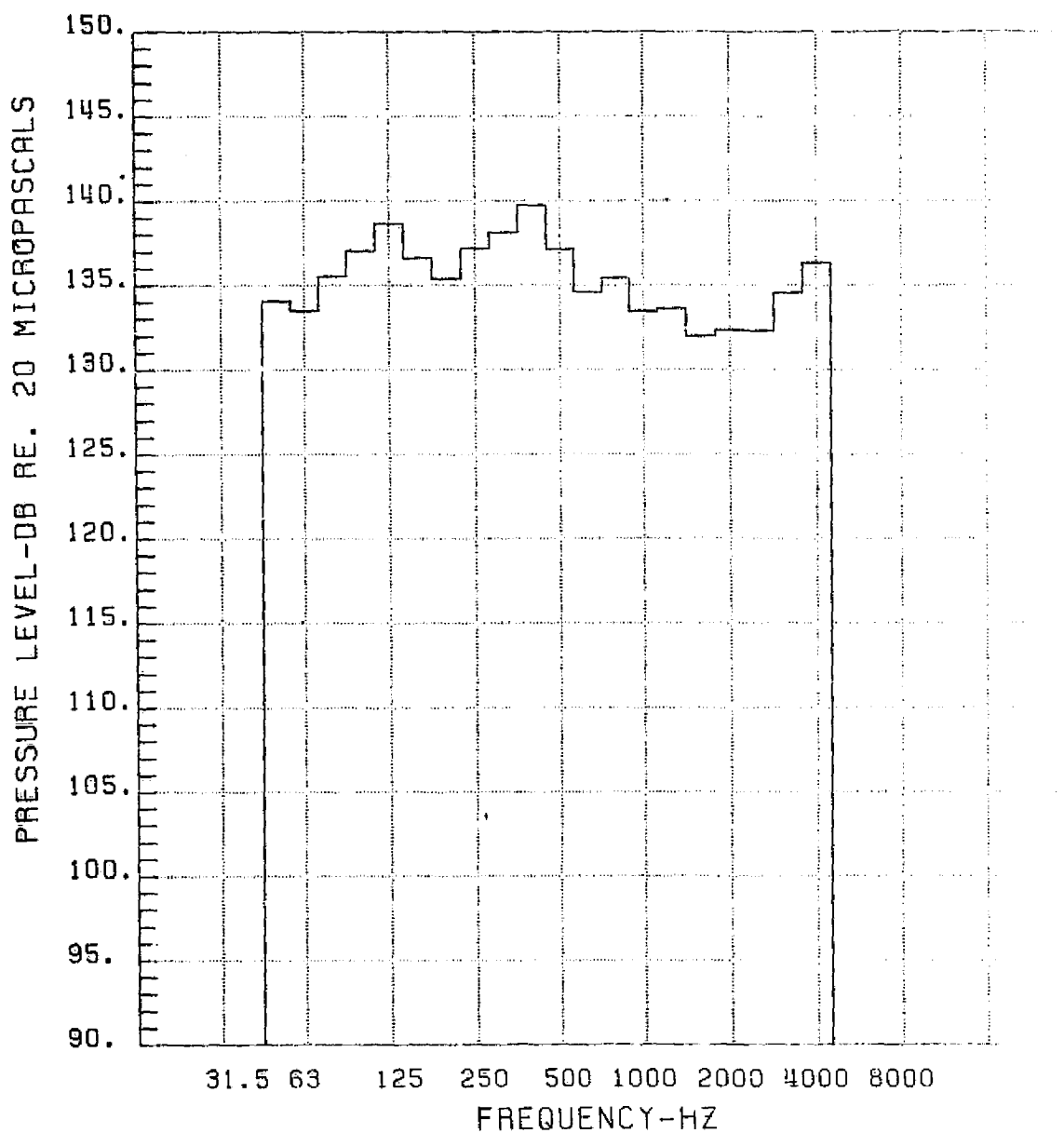
GROUP: III

RUN NUMBER: 20



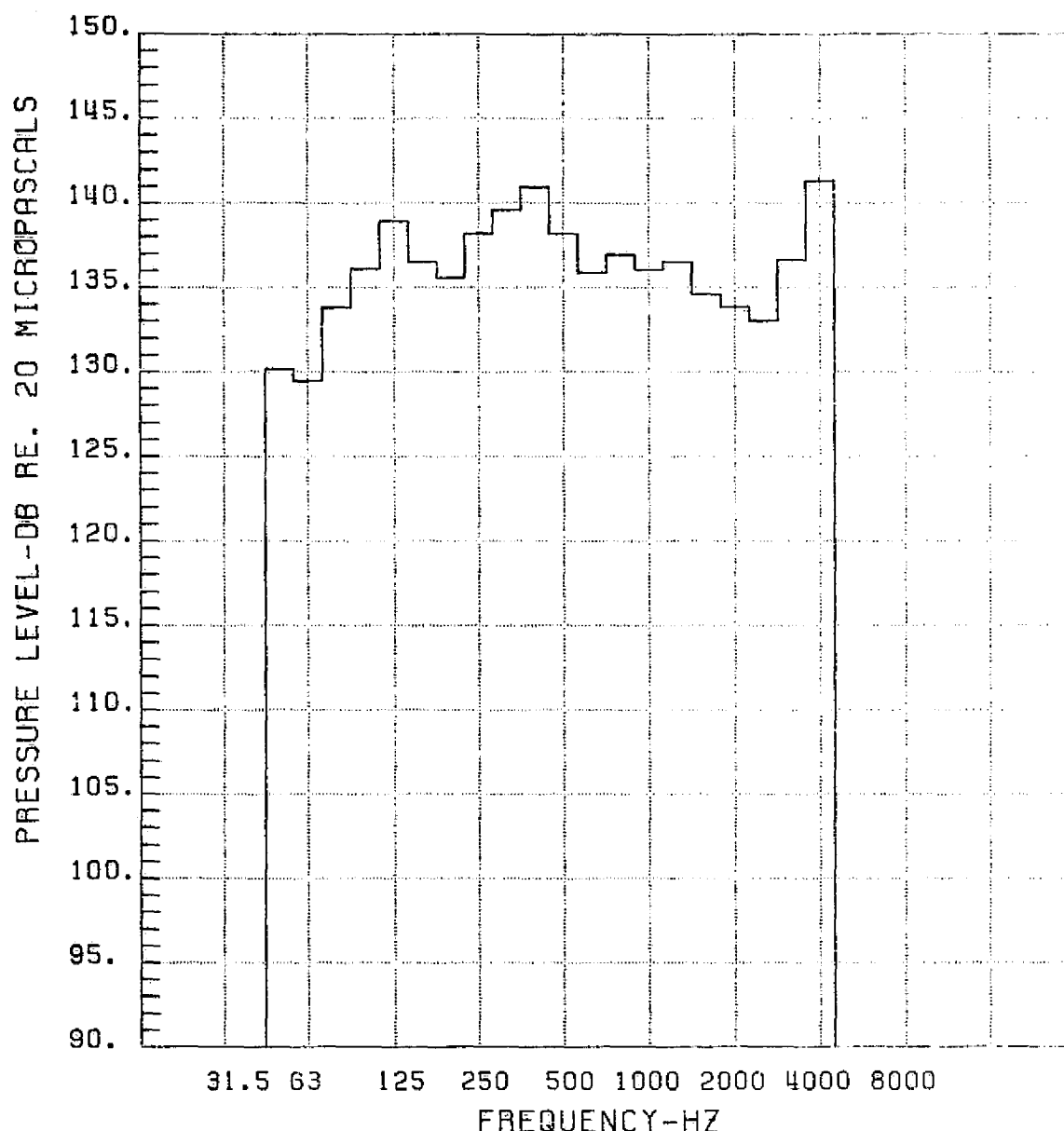
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 314. KPA (45.6 PSIA), COMB EXIT TEMP=606.3 DEG C (1123. DEG F),  
AIR FLOW=5.18 KG/SEC (11.4 #/SEC), FUEL FLOW= 219. KG/HR (483. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 6. GROUP: III RUN NUMBER: 20



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 375. KPA (54.4 PSIA), COMB EXIT TEMP=669.4 DEG C (1237. DEG F),  
AIR FLOW=5.87 KG/SEC (12.9 #/SEC), FUEL FLOW= 275. KG/HR (607. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: III RUN NUMBER: 22



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAMFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 375. KPA (54.4 PSIA), COMB EXIT TEMP=669.4 DEG C (1237. DEG F),  
AIR FLOW=5.87 KG/SEC (12.9 \*/SEC), FUEL FLOW= 275. KG/HR (607. \*/HR)

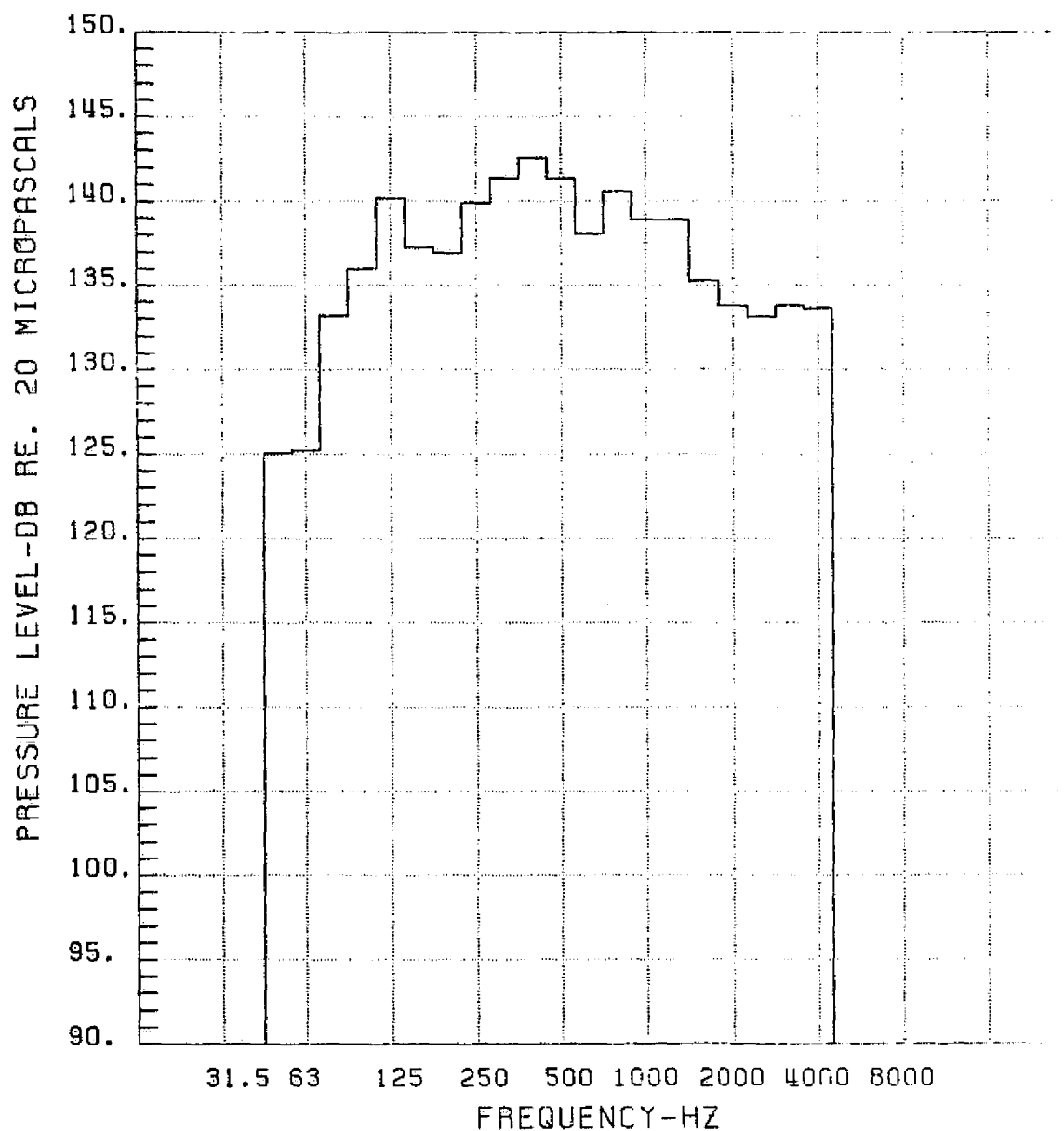
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PROBE NUMBER: 2.

GROUP: III

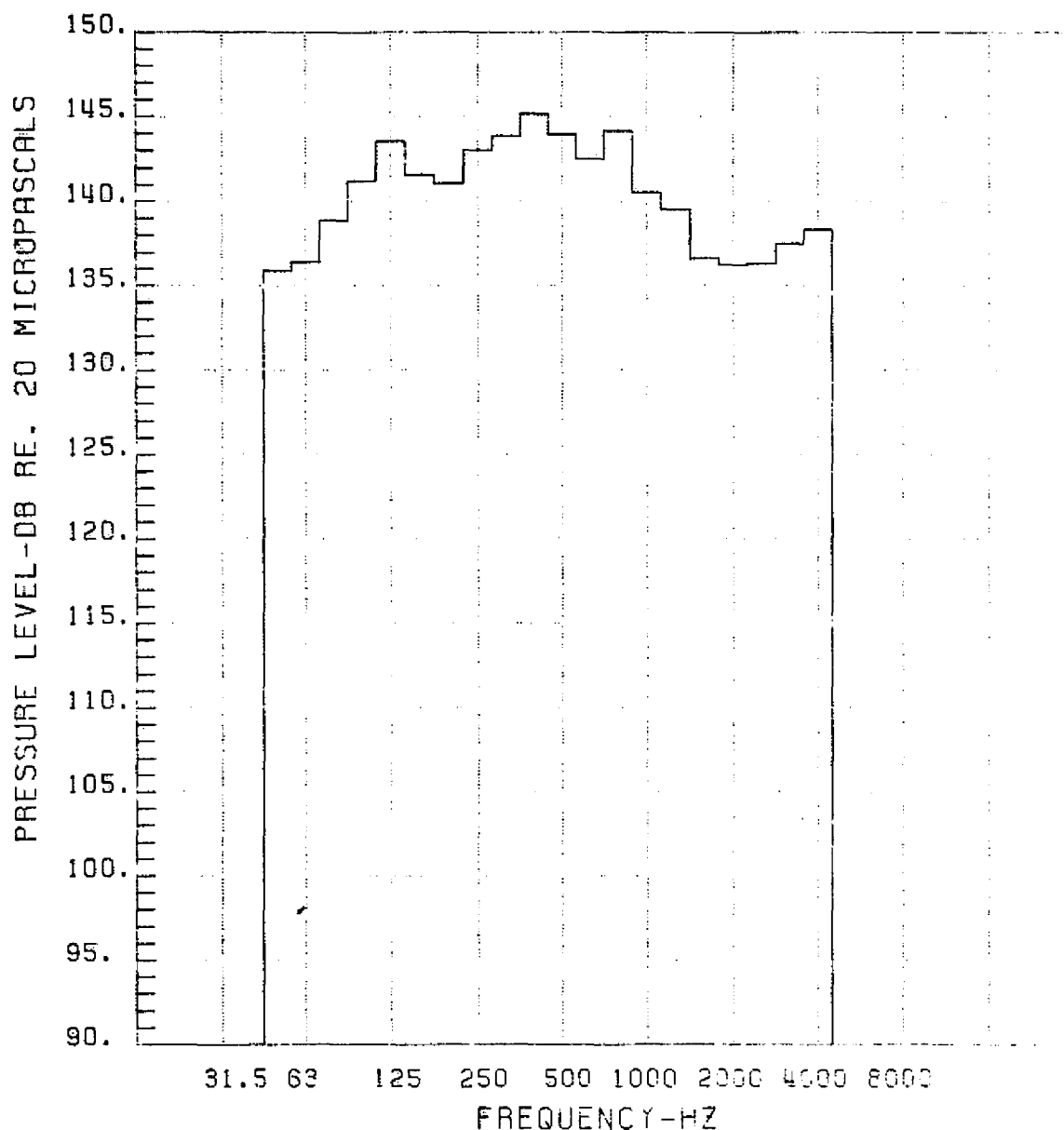
RUN NUMBER: 22





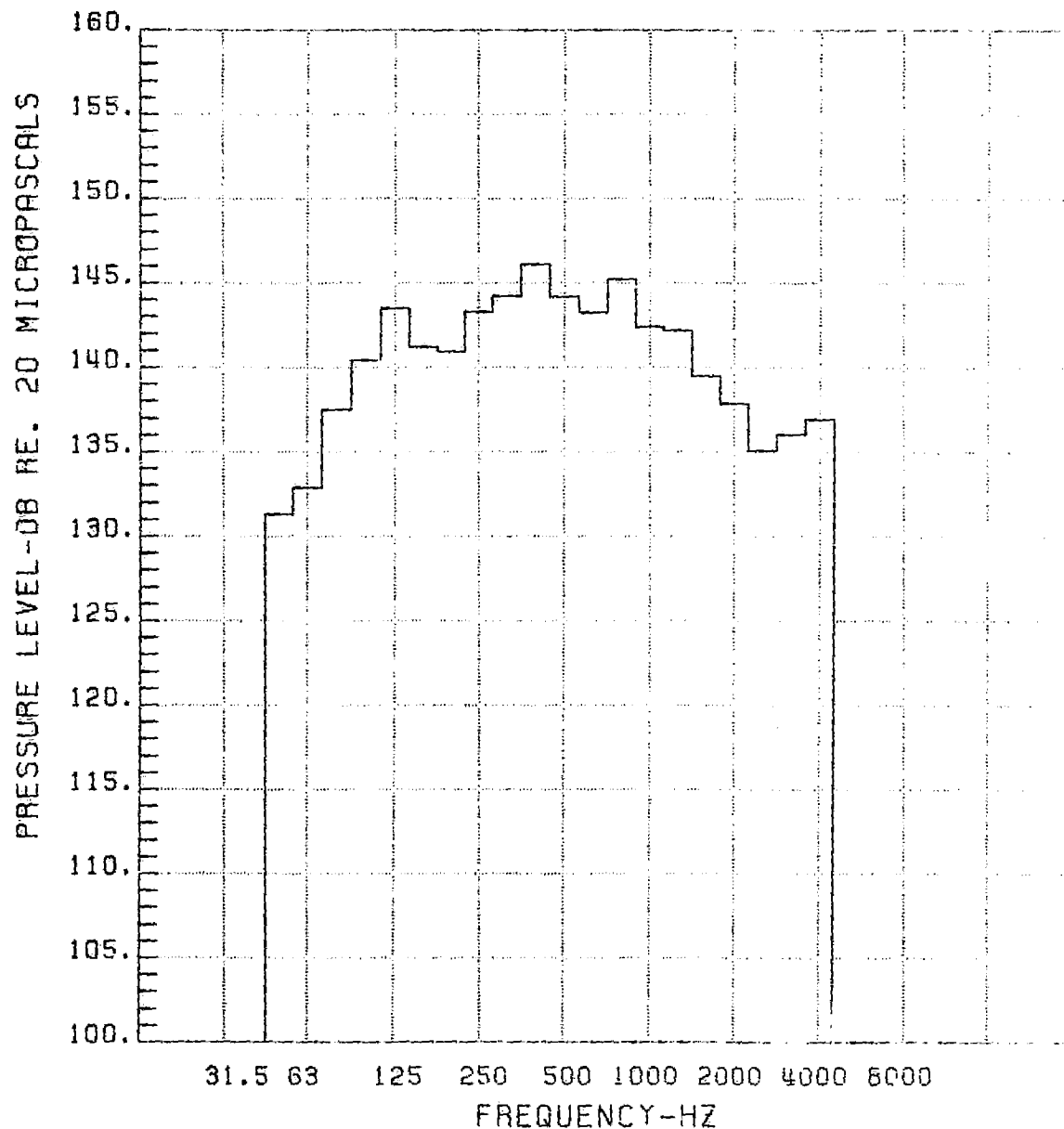
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 375. KPA (54.4 PSIA), COMB EXIT TEMP= 669.4 DEG C (1237. DEG F),  
AIR FLOW= 5.07 KG/SEC (12.9 #/SEC), FUEL FLOW= 275. KG/HR (607. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 3. GROUP: III RUN NUMBER: 22



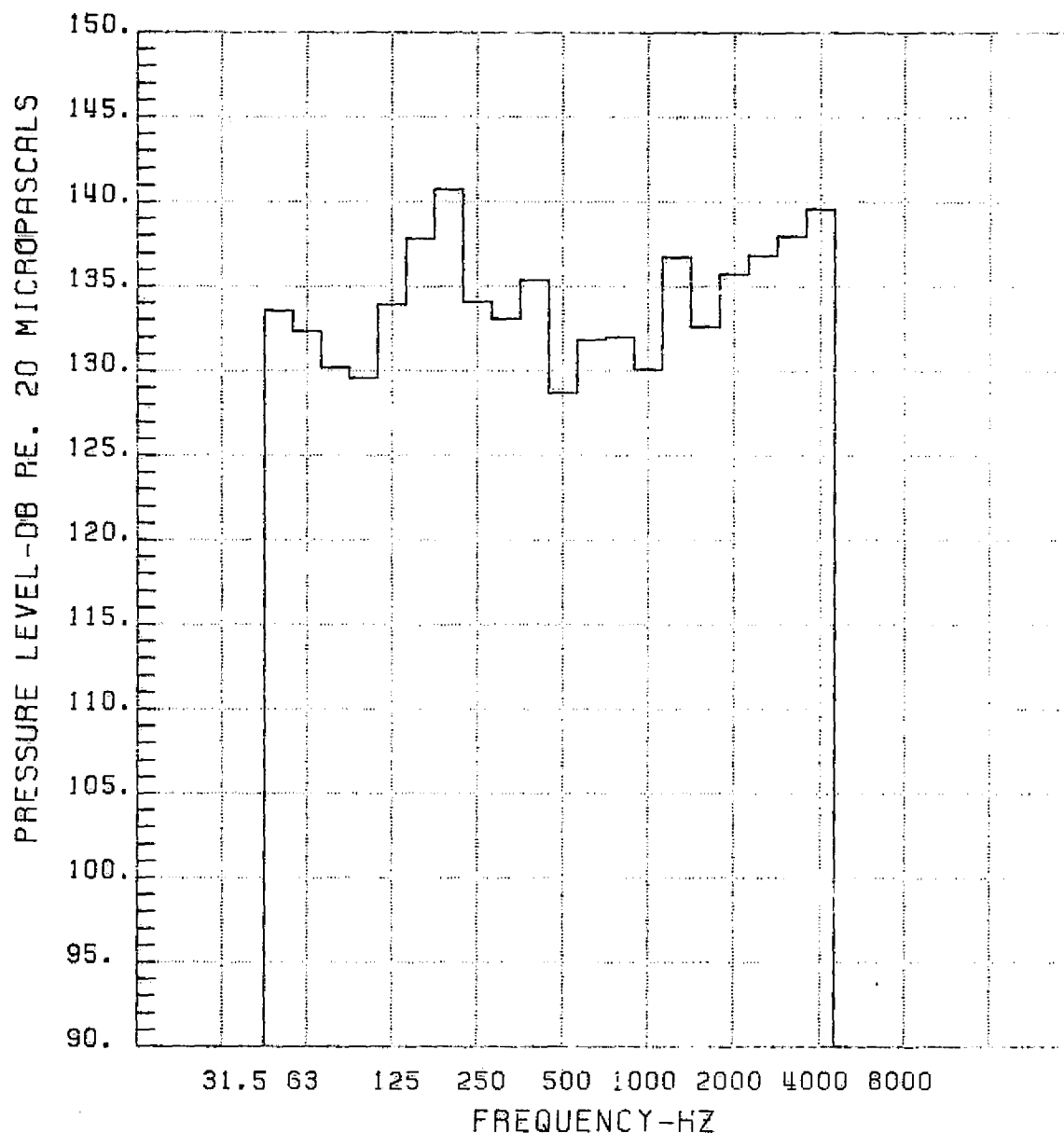
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06487  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 375. KPA (54.4 PSI(A)), COMB EXIT TEMP= 659.4 DEG C (1237. DEG F),  
AIR FLOW= 5.87 KG/SEC (12.9 #/SEC), FUEL FLOW= 275. KG/HR (607. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: III RUN NUMBER: 22



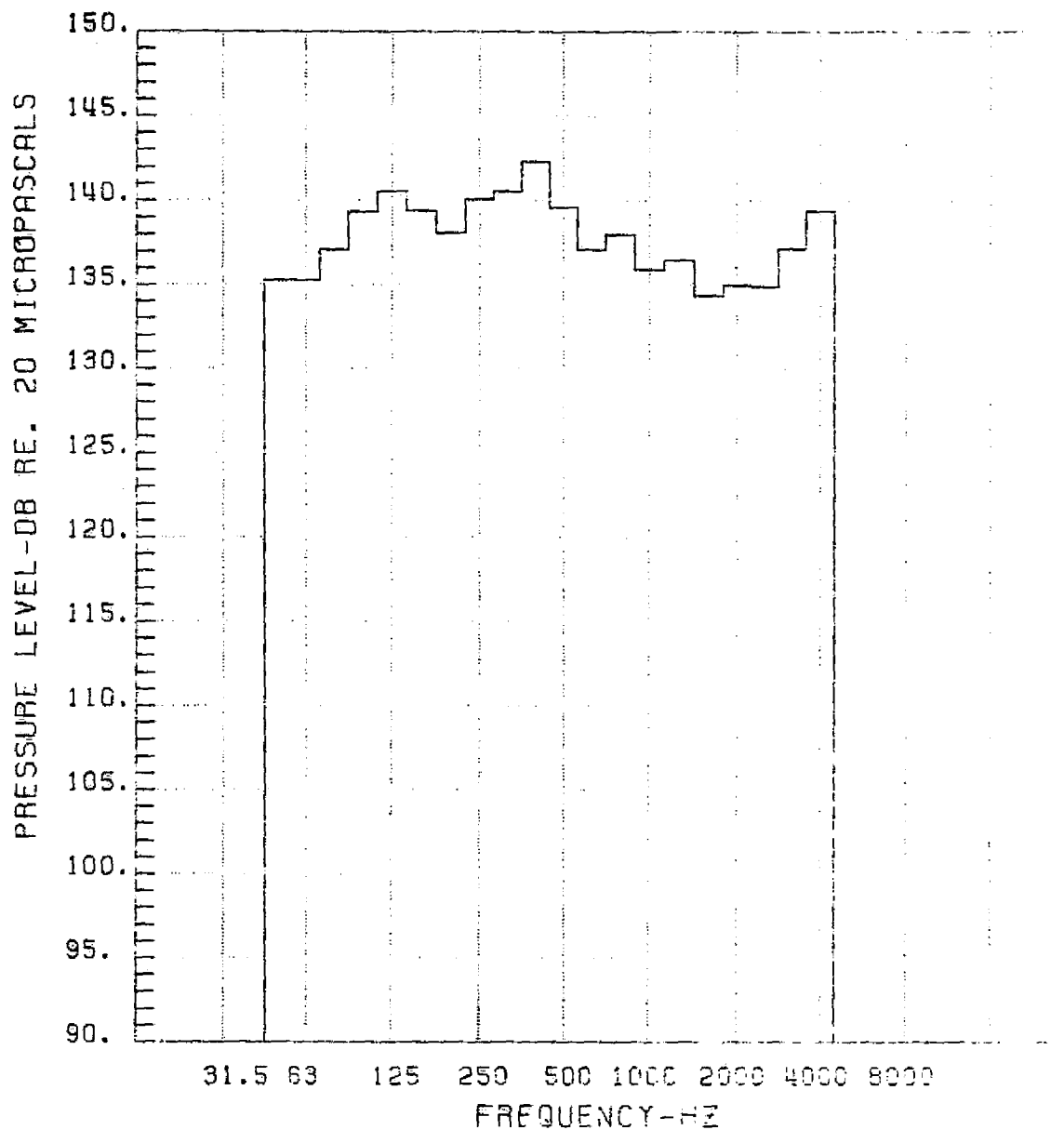
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 375. KPA (54.4 PSIA), COMB EXIT TEMP= 669.4 DEG C (1237. DEG F),  
AIR FLOW= 5.87 KG/SEC (12.9 #/SEC), FUEL FLOW= 275. KG/HR (607. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5, GROUP: III RUN NUMBER: 22



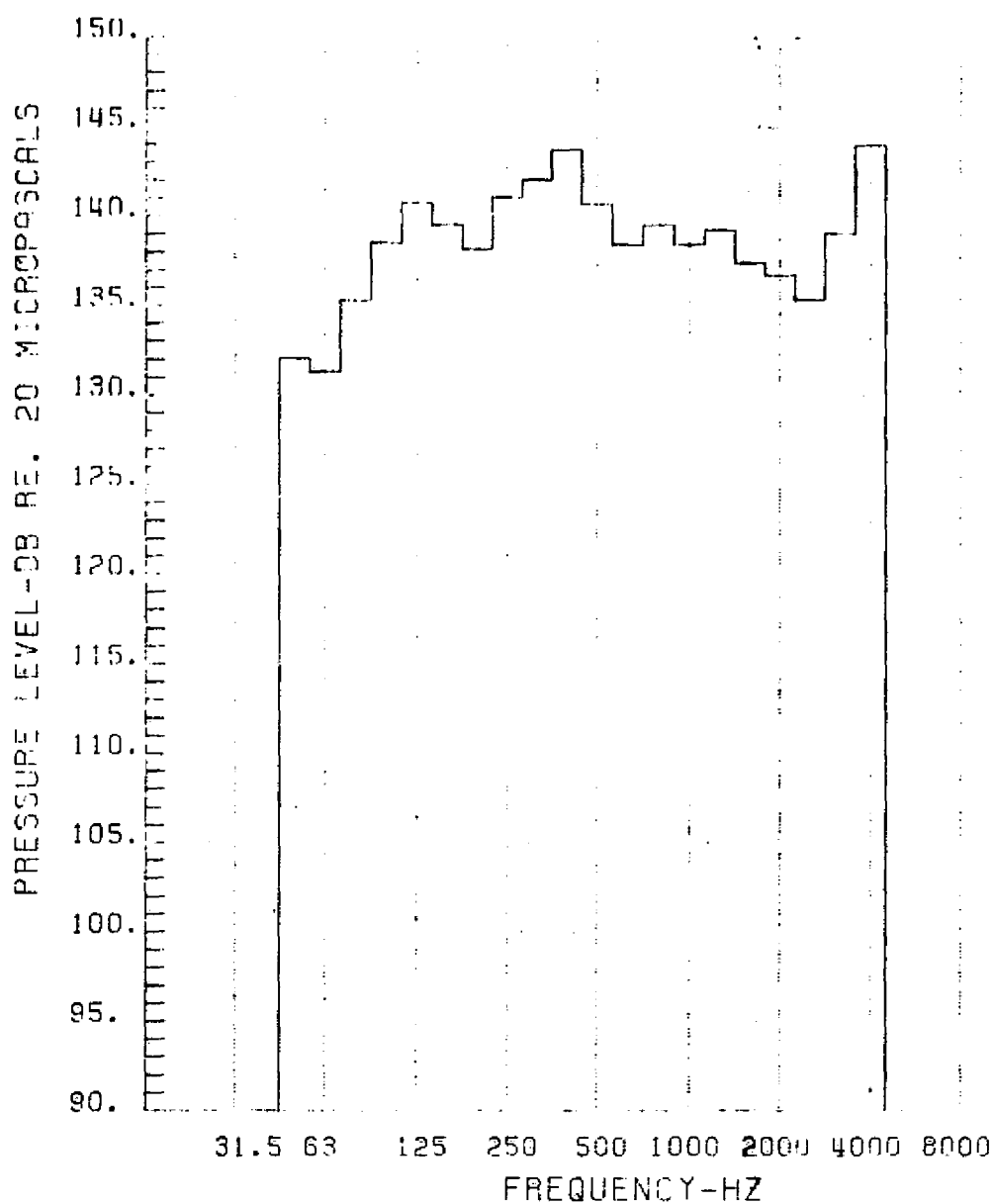
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 375. KPA (54.4 PSIA), COMB EXIT TEMP=669.4 DEG C (1237. DEG F),  
AIR FLOW=5.87 KG/SEC (12.9 #/SEC), FUEL FLOW= 275. KG/HR (607. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 6. GROUP: III RUN NUMBER: 22



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06427  
**ONE THIRD OCTAVE BAND ANALYSIS**

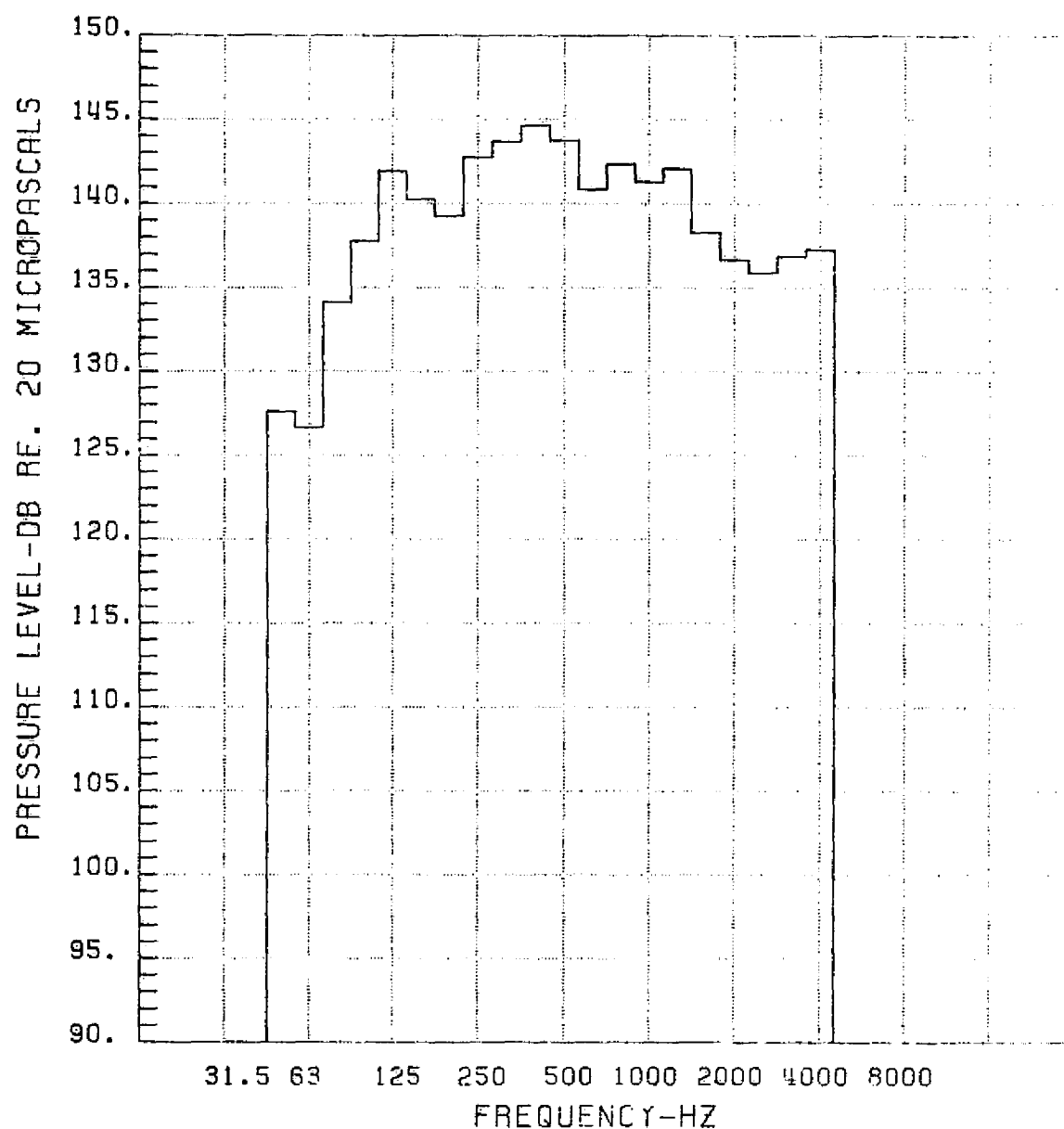
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 450. KPA (65.2 PSIA), COMB EXIT TEMP= 723.8 DEG C (1345. DEG F),  
AIR FLOW= 7.10 KG/SEC (15.7 #/SEC), FUEL FLOW= 358. KG/HR (789. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: III RUN NUMBER: 23



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AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 450. KPA (65.2 PSIA), COMB EXIT TEMP= 729.8 DEG C (1346. DEG F),  
AIR FLOW= 7.10 KG/SEC (15.7 #/SEC), FUEL FLOW= 358. KG/HR (789. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 2. GROUP: III RUN NUMBER: 23



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

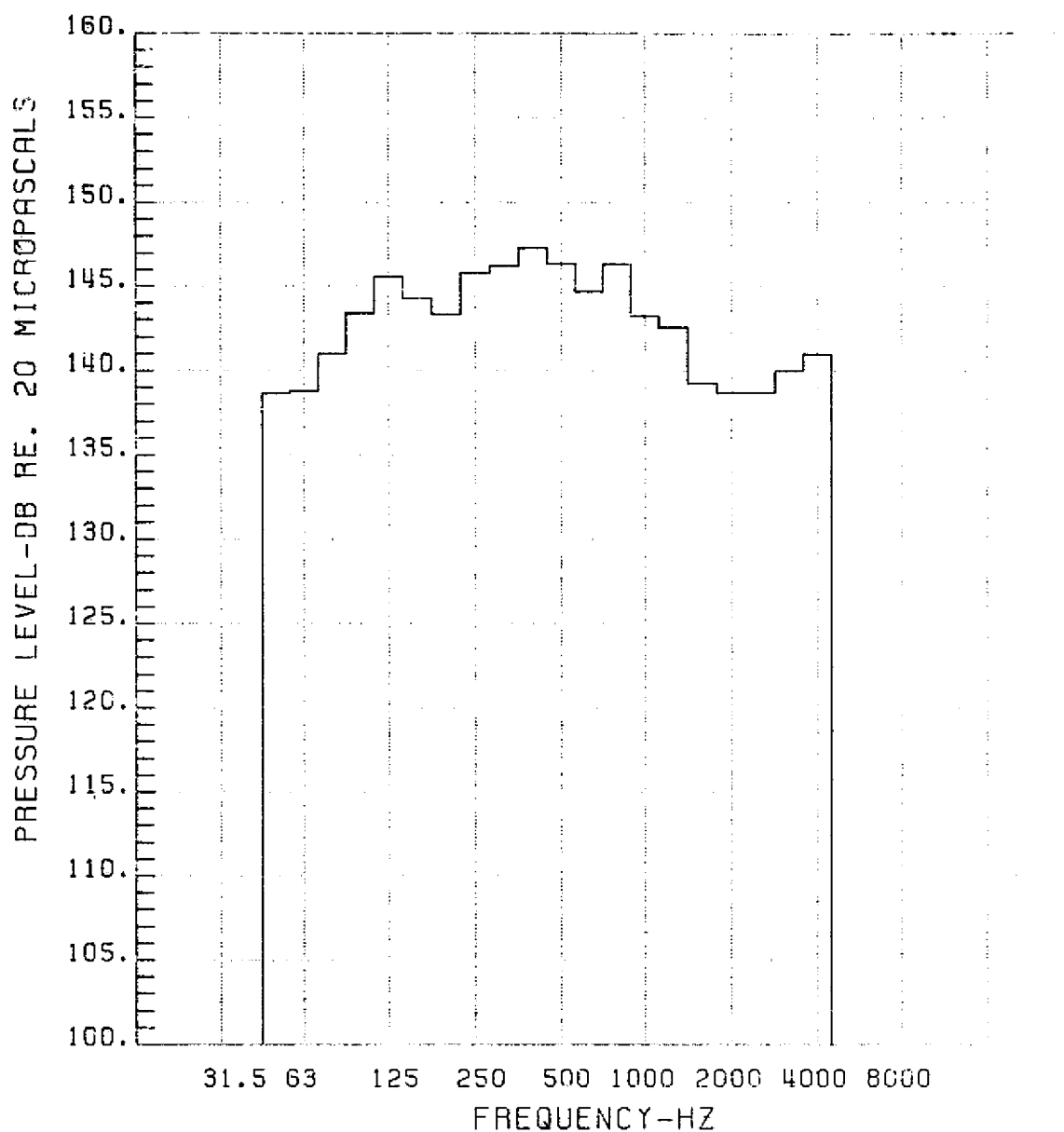
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 450. KPA (65.2 PSIA), COMB EXIT TEMP=729.8 DEG C (1346. DEG F),  
AIR FLOW=7.10 KG/SEC (15.7 #/SEC), FUEL FLOW= 358. KG/HR (789. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

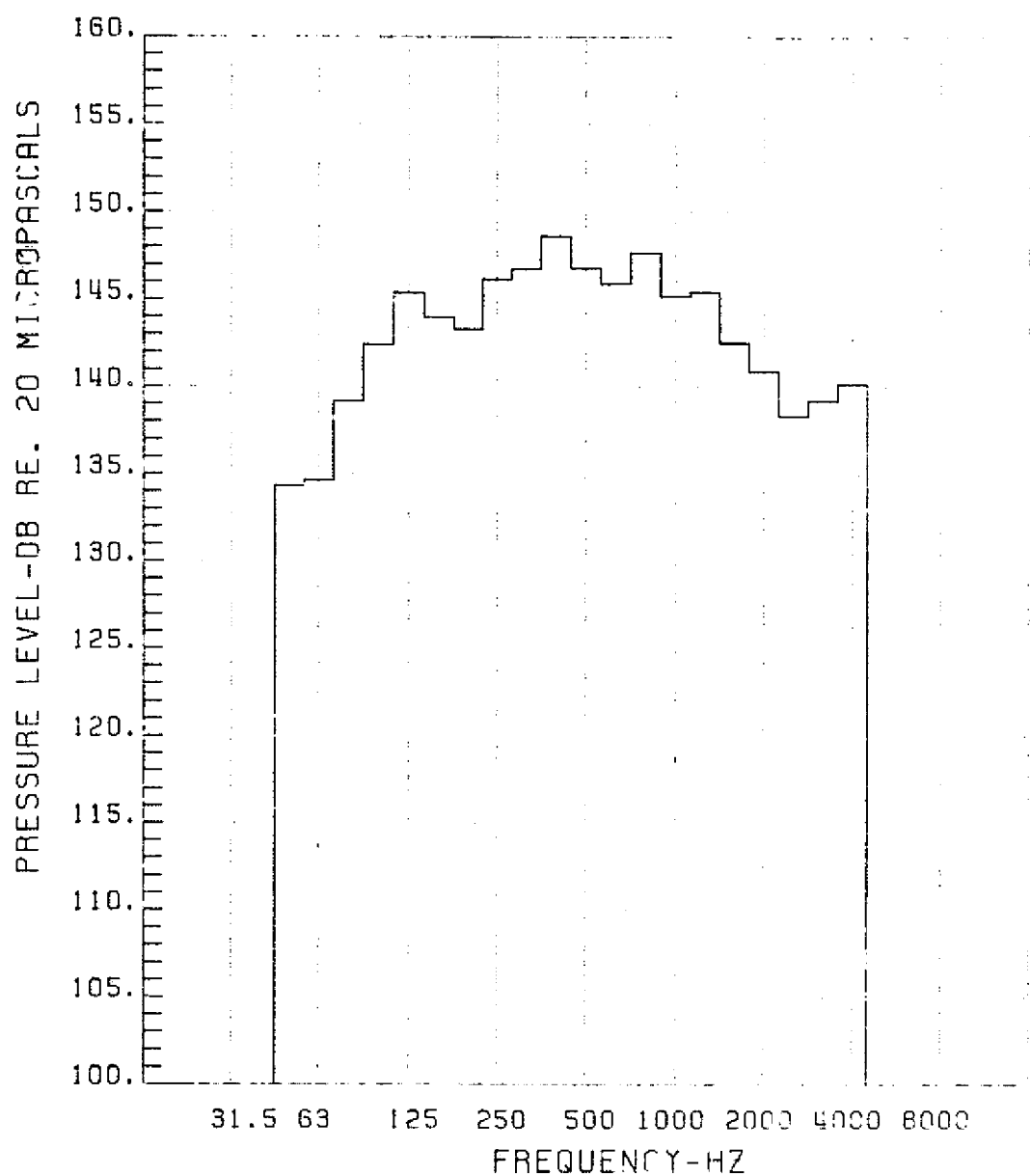
GROUP: III

RUN NUMBER: 23



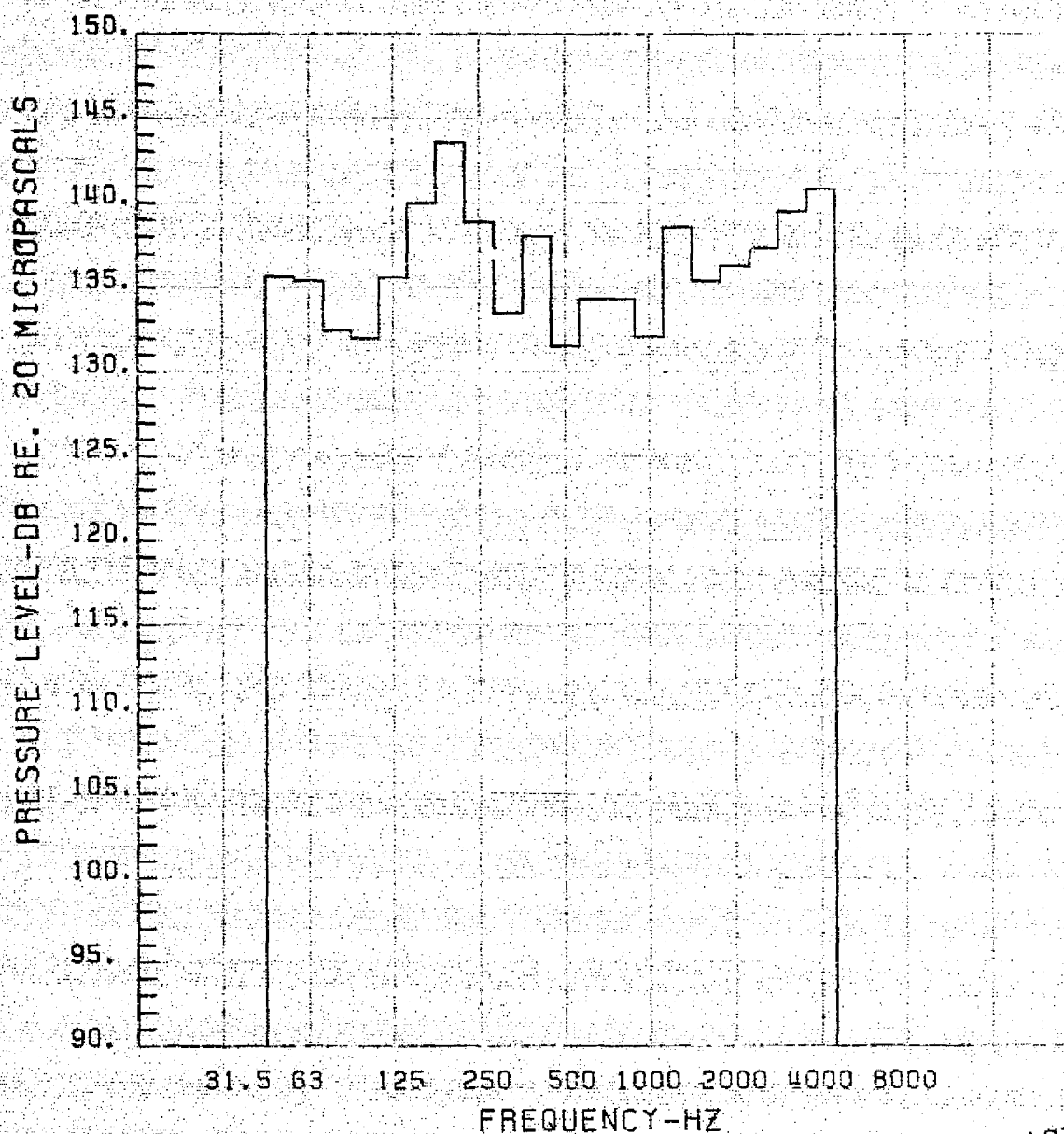
<b>AVCO-LYCOMING DIVISION</b> 550 SOUTH MAIN ST., STRATFORD, CONN. 06497 <b>ONE THIRD OCTAVE BAND ANALYSIS</b>		
<b>TITLE:</b> COMPUTER DEFINED OPERATING POINTS INLET PRESS= 450. KPA (65.2 PSIA), COMB EXIT TEMP= 729.6 DEG I (1346. DEG F), AIR FLOW= 7.10 KG/SEC (15.7 #/SEC), FUEL FLOW= 358. KG/HR (789. #/HR)		
<b>TEST DATE:</b> 4/19-21/77		
<b>PROBE NUMBER:</b> 4.	<b>GROUP:</b> III	<b>RUN NUMBER:</b> 23





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 450. KPA (65.2 PSIA), COMB EXIT TEMP= 729.8 DEG C (1346. DEG F),  
AIR FLOW= 7.10 KG/SEC (15.7 #/SEC), FUEL FLOW= 358. KG/HR (789. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: III RUN NUMBER: 23

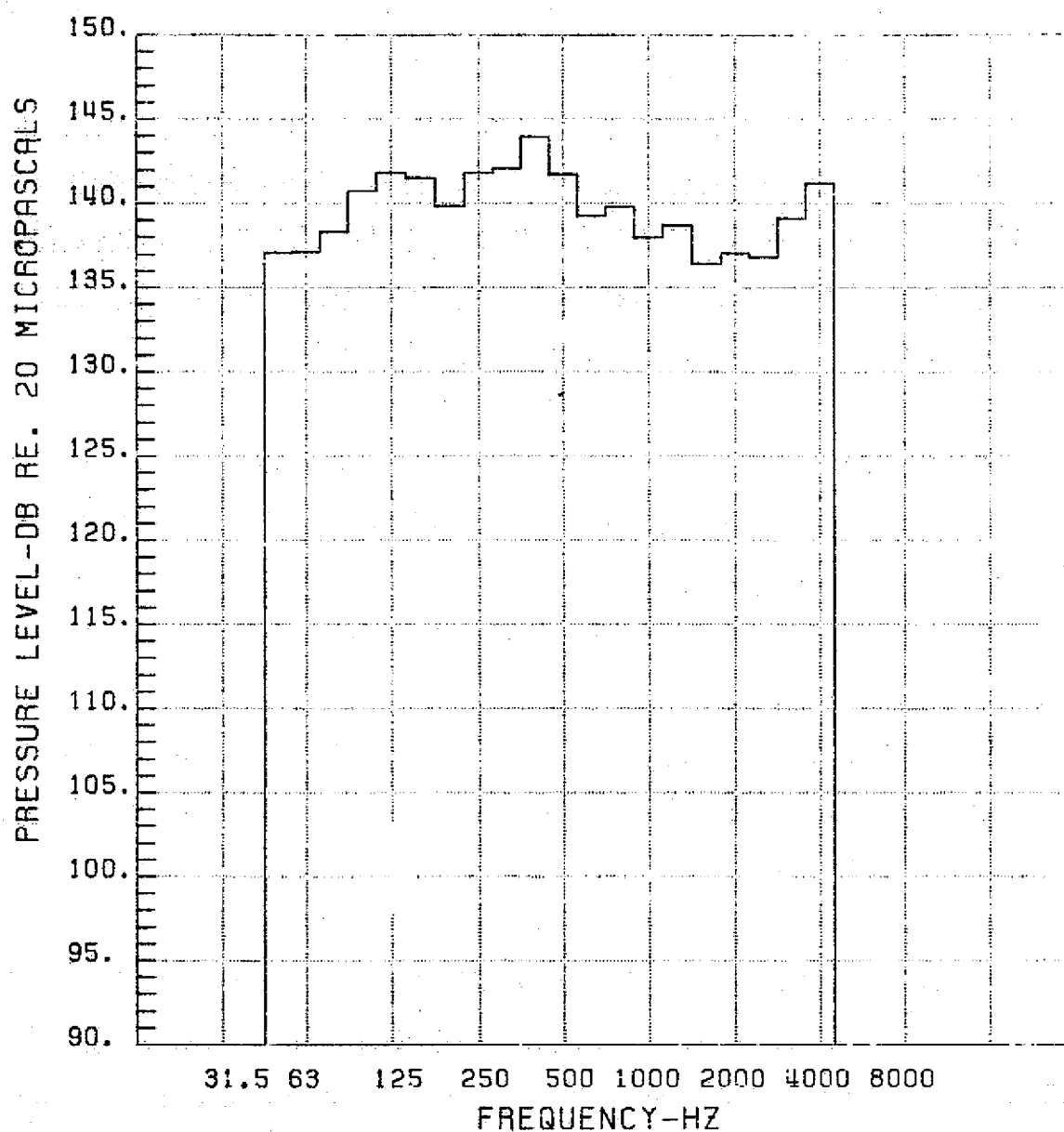


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OF POOR QUALITY

AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 450. KPA (65.2 PSIA), COMB EXIT TEMP= 729.8 DEG C (1346. DEG F),  
AIR FLOW= 7.10 KG/SEC (15.7 #/SEC), FUEL FLOW= 358. KG/HR (789. #/HR)  
TEST DATE: 4/19-21/77

PROBE NUMBER: 6 GROUP: III RUN NUMBER: 23



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

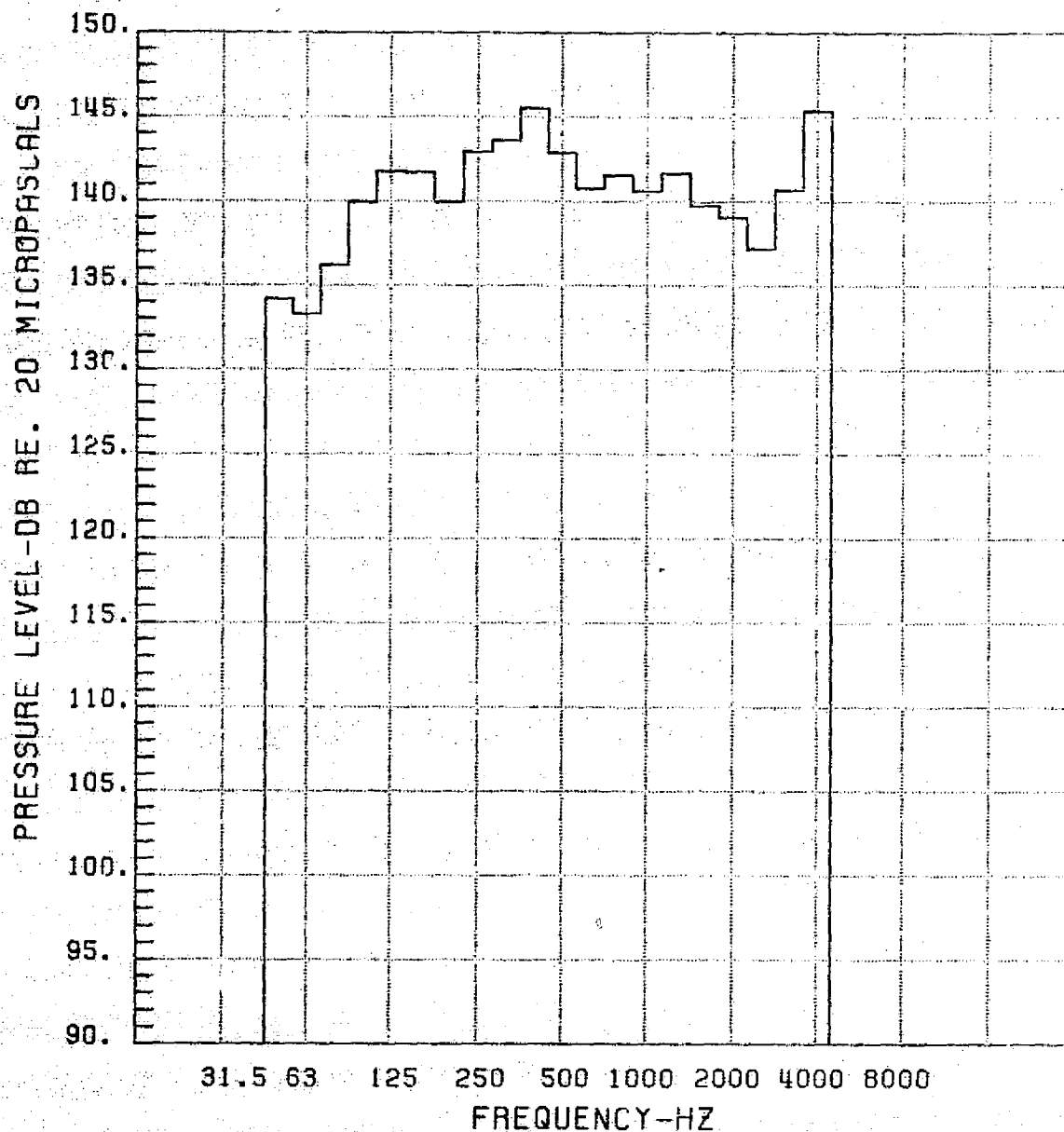
TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 556. KPA (80.6 PSIA), COMB EXIT TEMP= 813.7 DEG C (1497. DEG F),  
AIR FLOW= 8.70 KG/SEC (19.2 #/SEC), FUEL FLOW= 499. KG/HR (1100. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

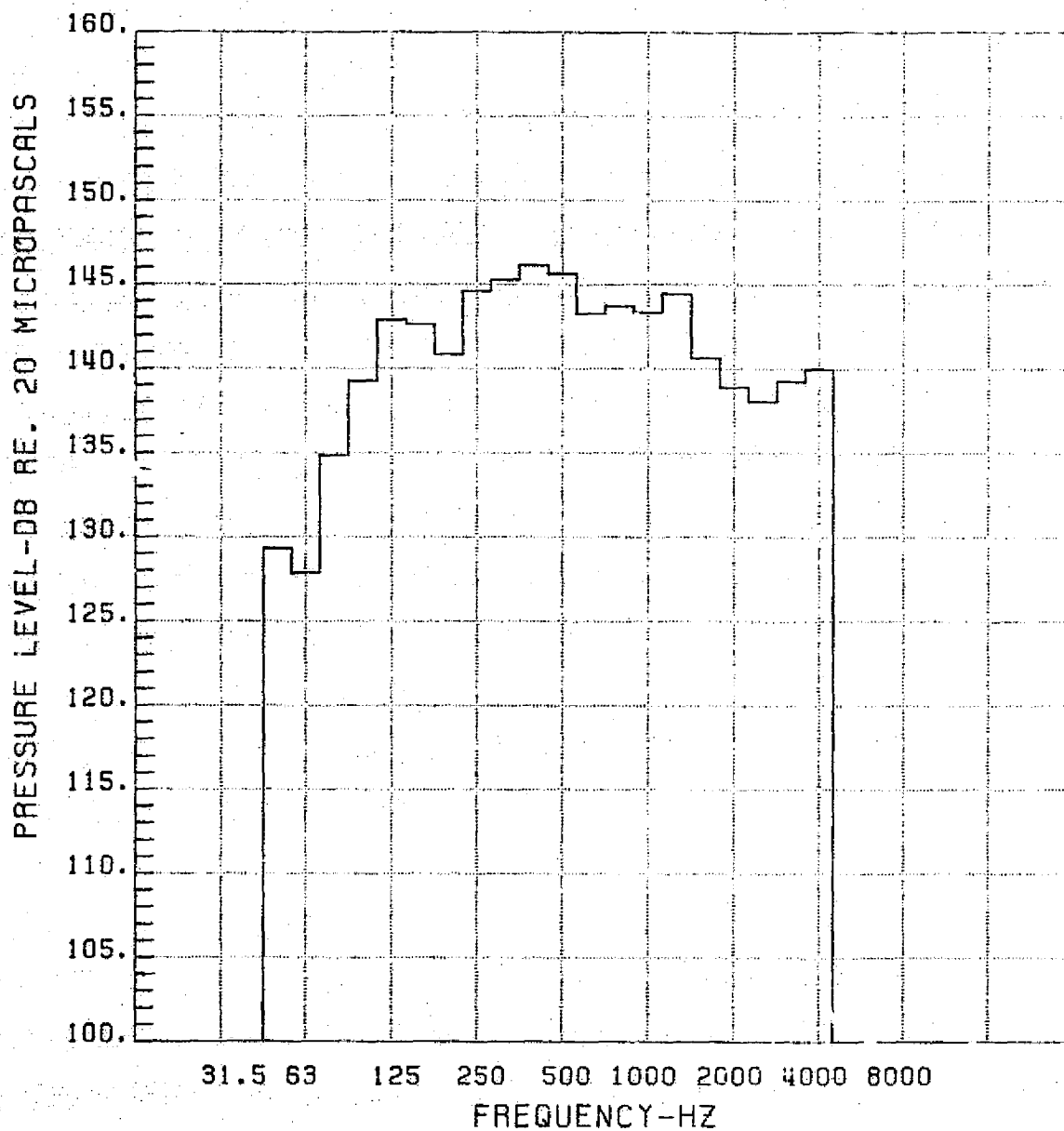
GROUP: III

RUN NUMBER: 24



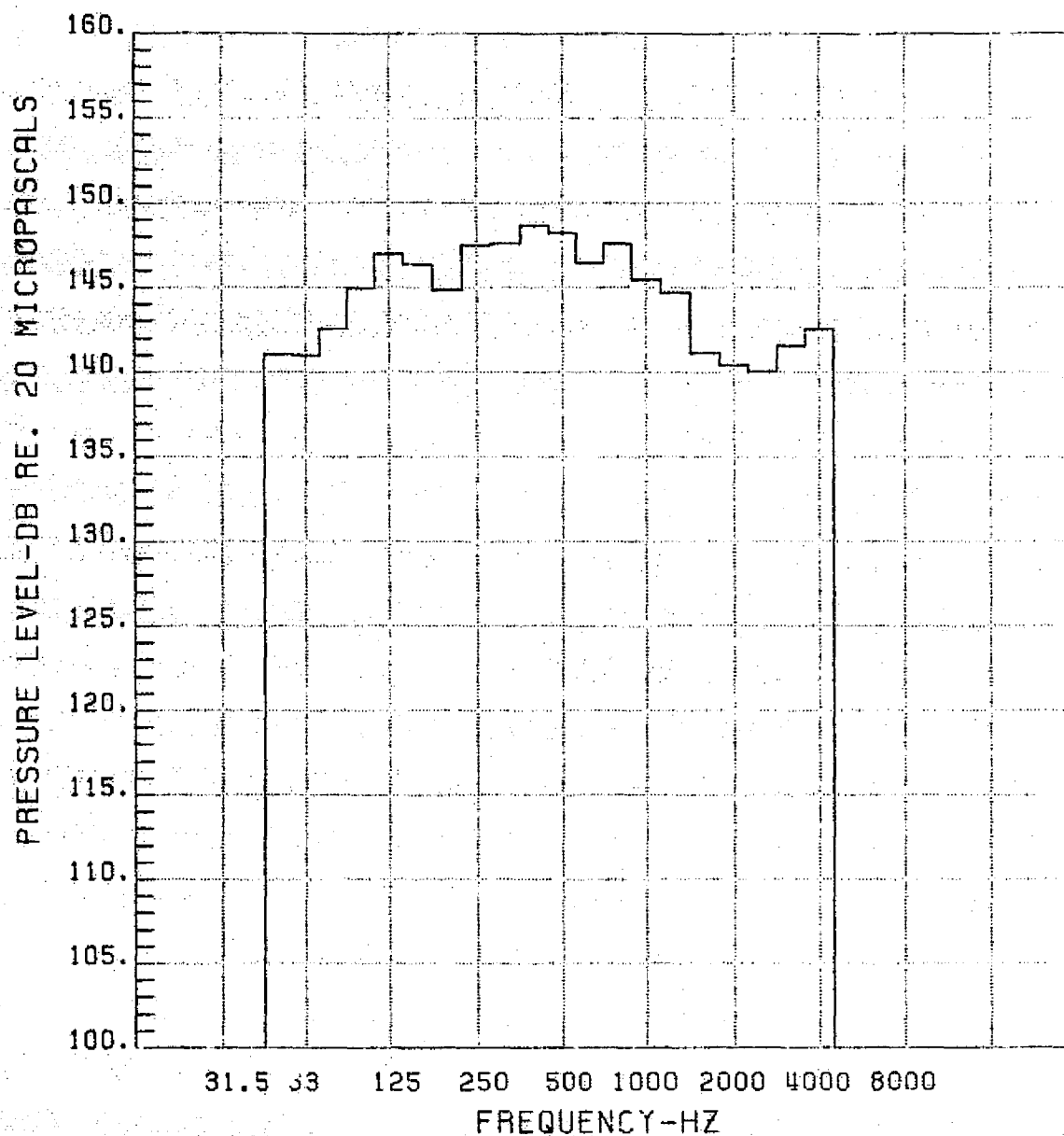
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 556. KPA (80.6 PSIA), COMB EXIT TEMP=813.7 DEG C (1497. DEG F),  
AIR FLOW=8.70 KG/SEC (19.2 \*/SEC), FUEL FLOW=499. KG/HR (1100. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 2. GROUP: III RUN NUMBER: 24



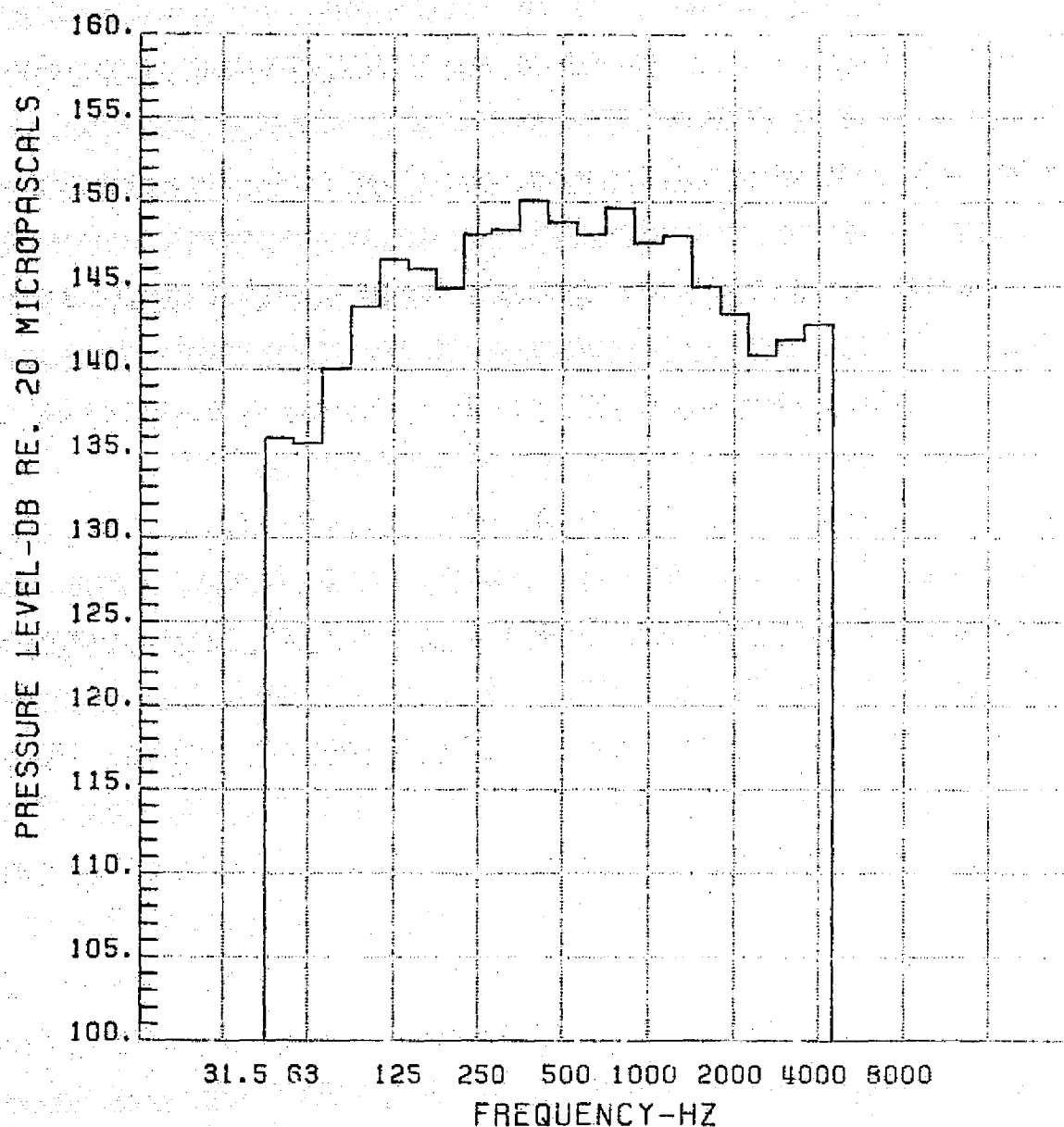
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 556. KPA (80.6 PSIA), COMB EXIT TEMP= 813.7 DEG C (1497. DEG F),  
AIR FLOW= 8.70 KG/SEC (19.2 \*/SEC), FUEL FLOW= 499. KG/HR (1100. \*/HR)  
TEST DATE: 4/18-21/77  
PROBE NUMBER: 3. GROUP: III RUN NUMBER: 24



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS  
INLET PRESS= 556. KPA (80.6 PSIA), COMB EXIT TEMP= 813.7 DEG C (1497. DEG F),  
AIR FLOW= 8.70 KG/SEC (19.2 #/SEC), FUEL FLOW= 499. KG/HR (1100. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: III RUN NUMBER: 24



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS

INLET PRESS= 556. KPA (80.6 PSIA), COMB EXIT TEMP=813.7 DEG C (1497. DEG F),

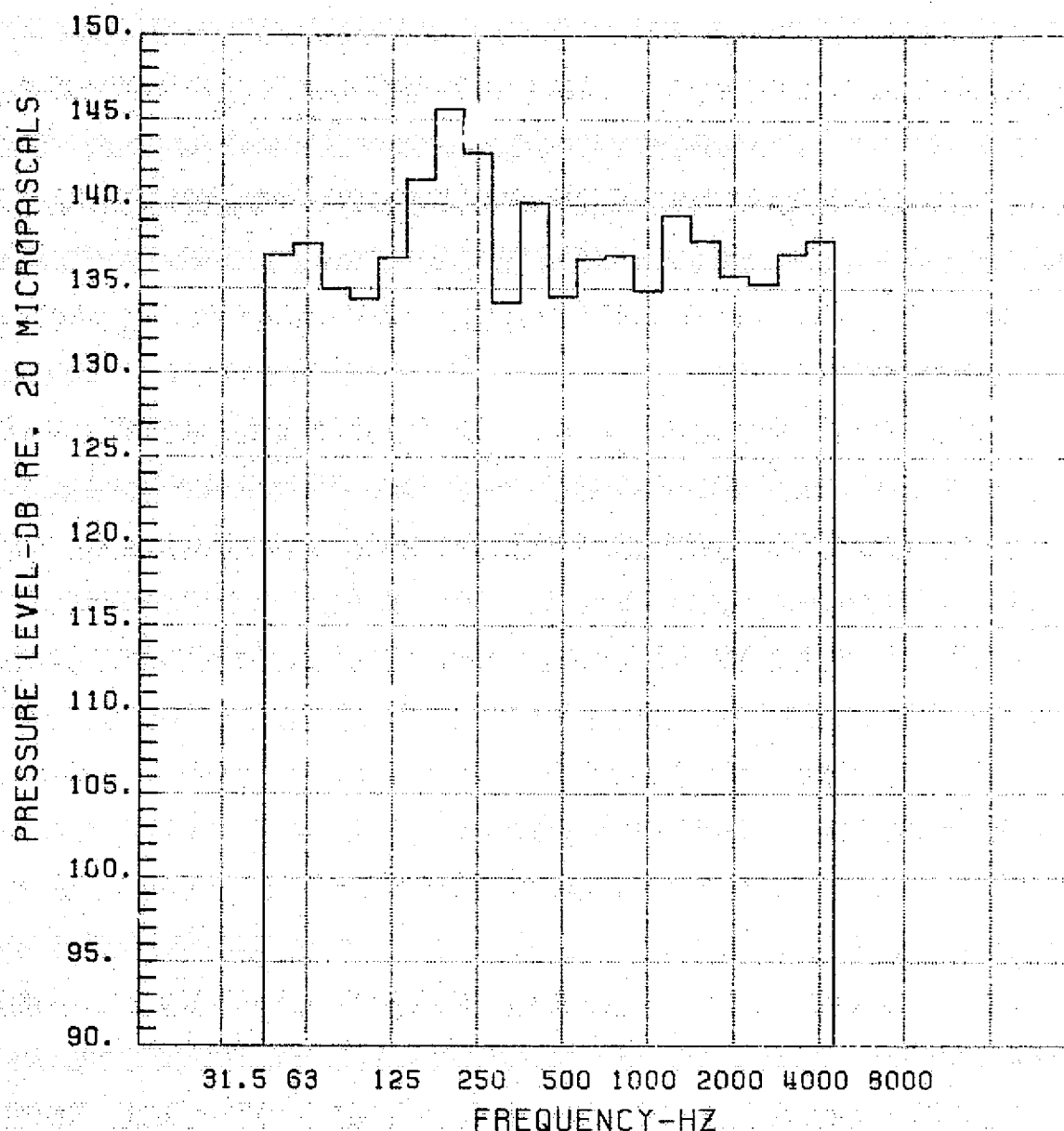
AIR FLOW=8.70 KG/SEC (19.2 #/SEC), FUEL FLOW= 499. KG/HR (1100. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: III

RUN NUMBER: 24



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STAMFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

TITLE: COMPUTER DEFINED OPERATING POINTS

INLET PRESS= 556. KPA (80.6 PSIA), COMB EXIT TEMP= 813.7 DEG C (1497. DEG F),

AIR FLOW= 8.70 KG/SEC (19.2 \*/SEC), FUEL FLOW= 499. KG/HR (1100. \*/HR)

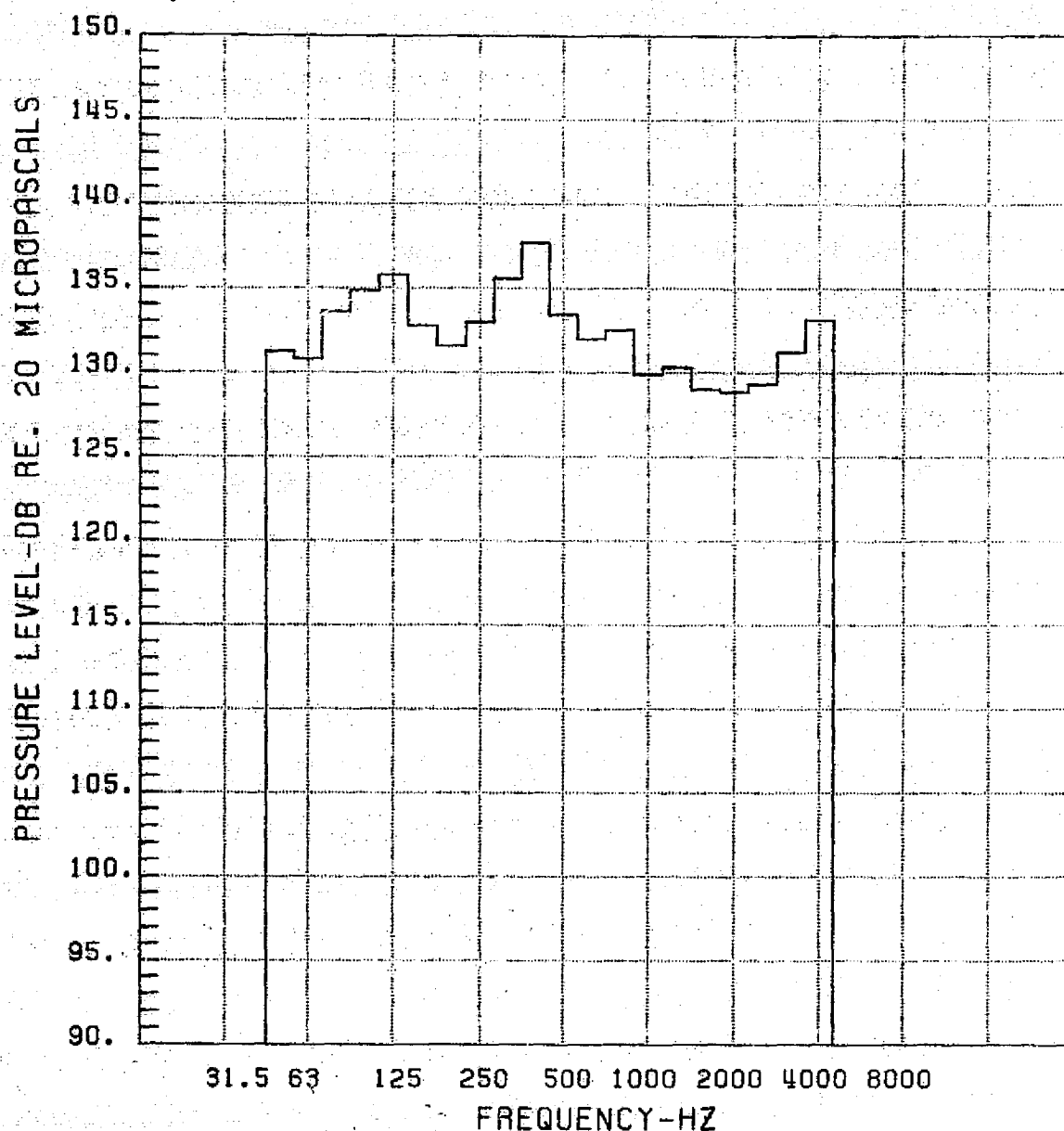
TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: III

RUN NUMBER: 24





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

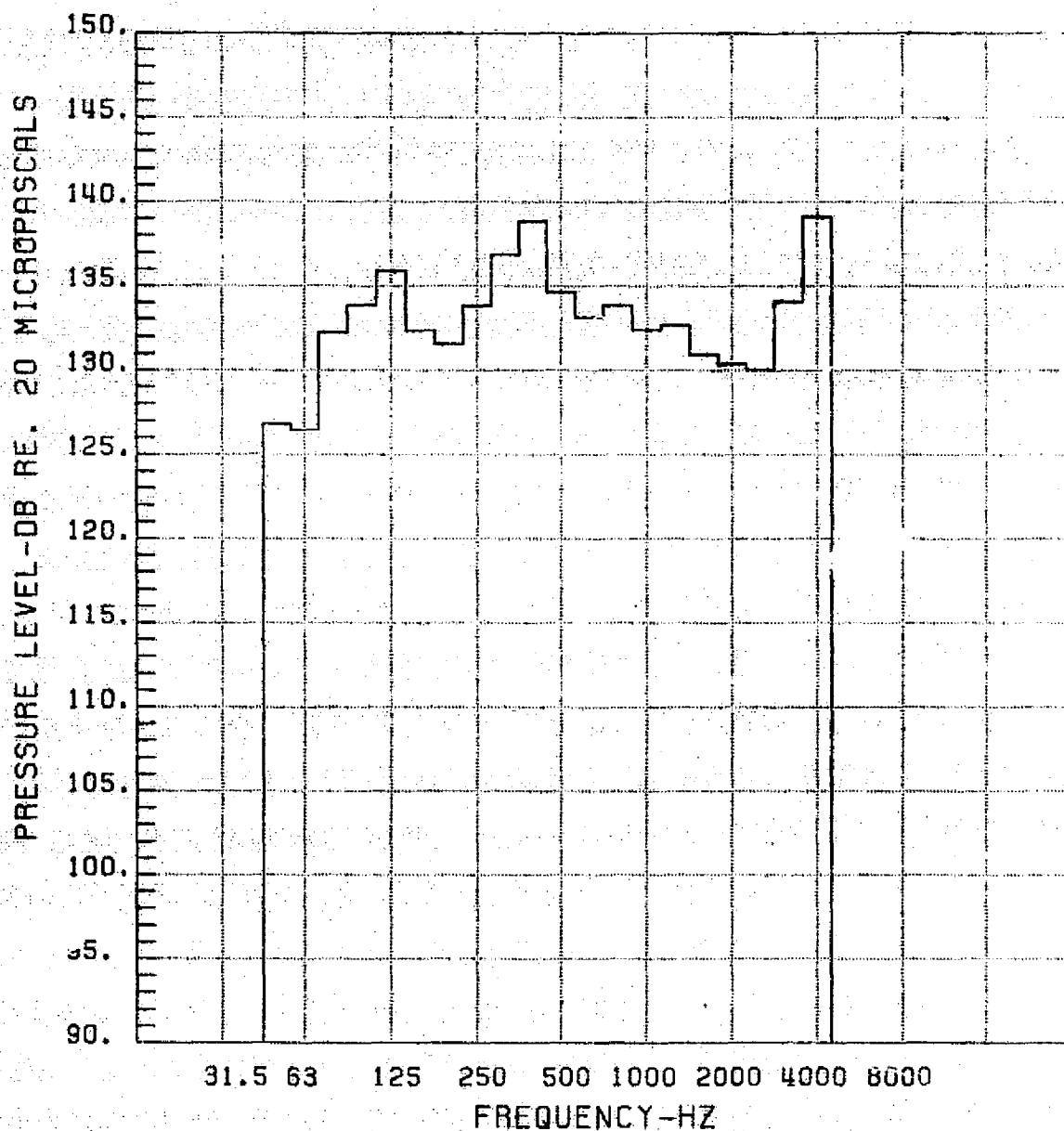
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP=597.3 DEG C (1107. DEG F),  
AIR FLOW=4.90 KG/SEC (10.8 #/SEC), FUEL FLOW= 196. KG/HR (432. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: IV

RUN NUMBER: 14



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

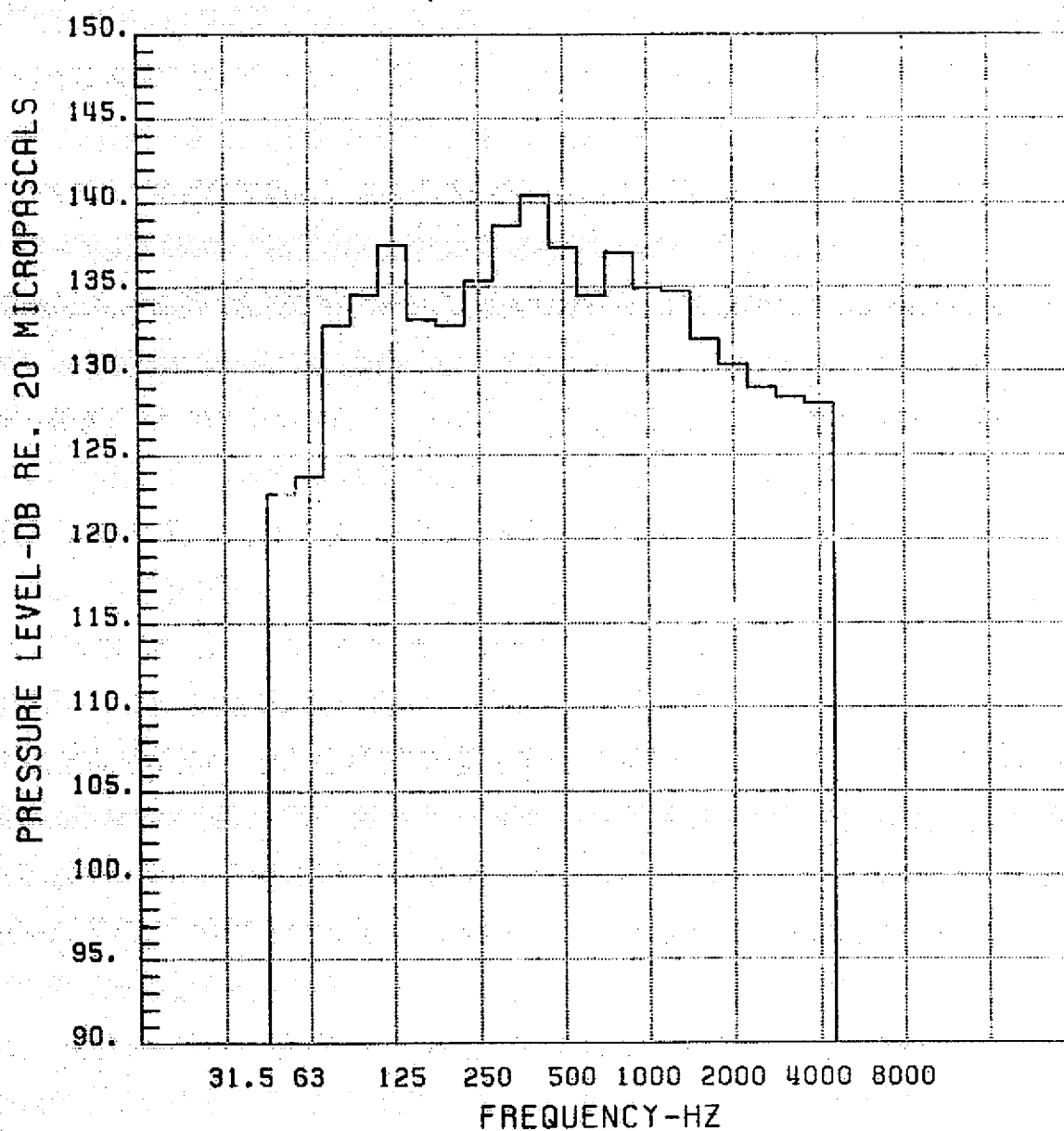
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2PSIA), COMB EXIT TEMP=597.3 DEG C (1107. DEG F),  
AIR FLOW=4.90 KG/SEC (10.8 #/SEC), FUEL FLOW= 196. KG/HR (432. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: IV

RUN NUMBER: 14



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

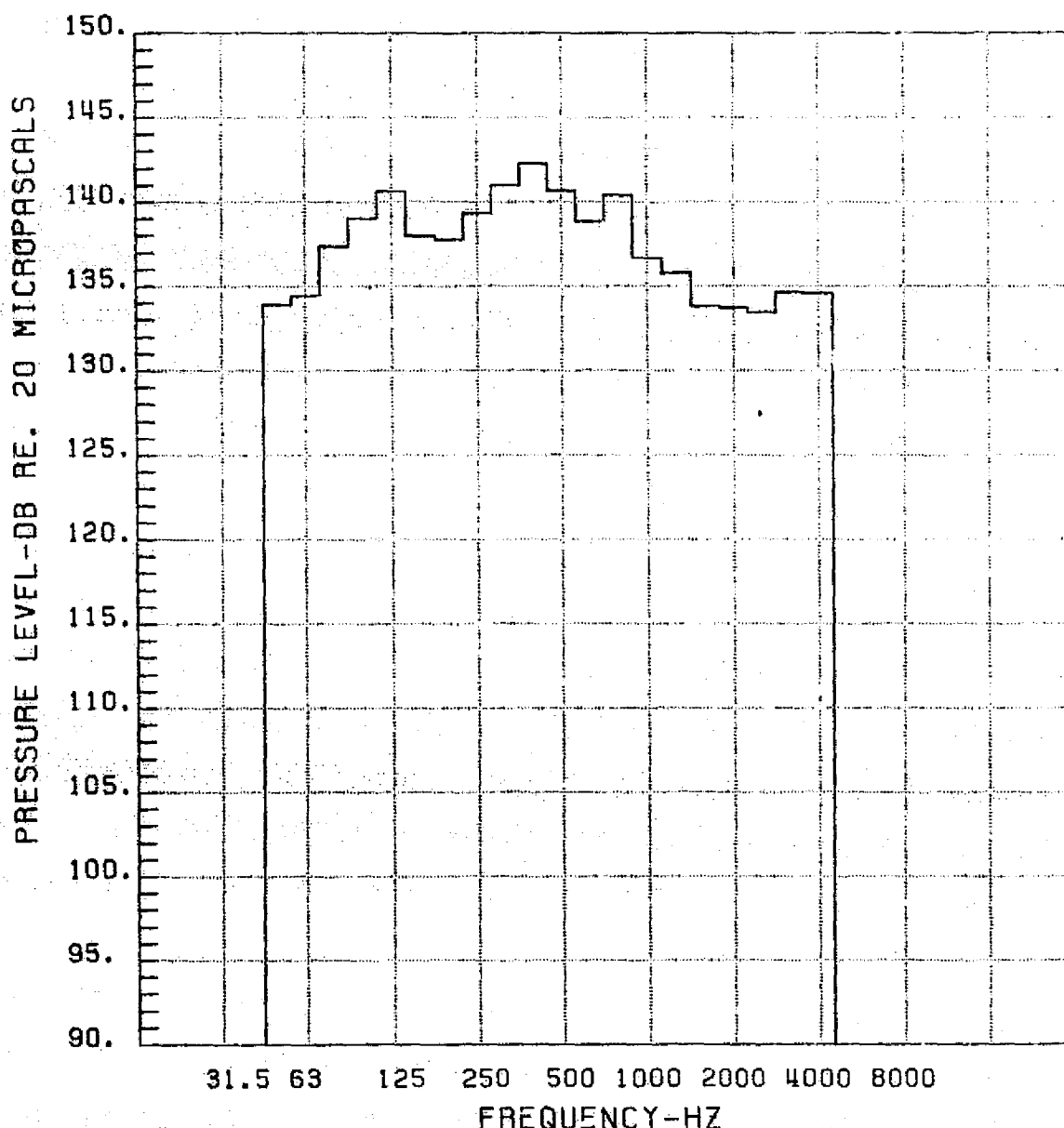
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 597.3 DEG C (1107. DEG F),  
AIR FLOW= 4.90 KG/SEC (10.8 #/SEC), FUEL FLOW= 196. KG/HR (432. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: IV

RUN NUMBER: 14



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

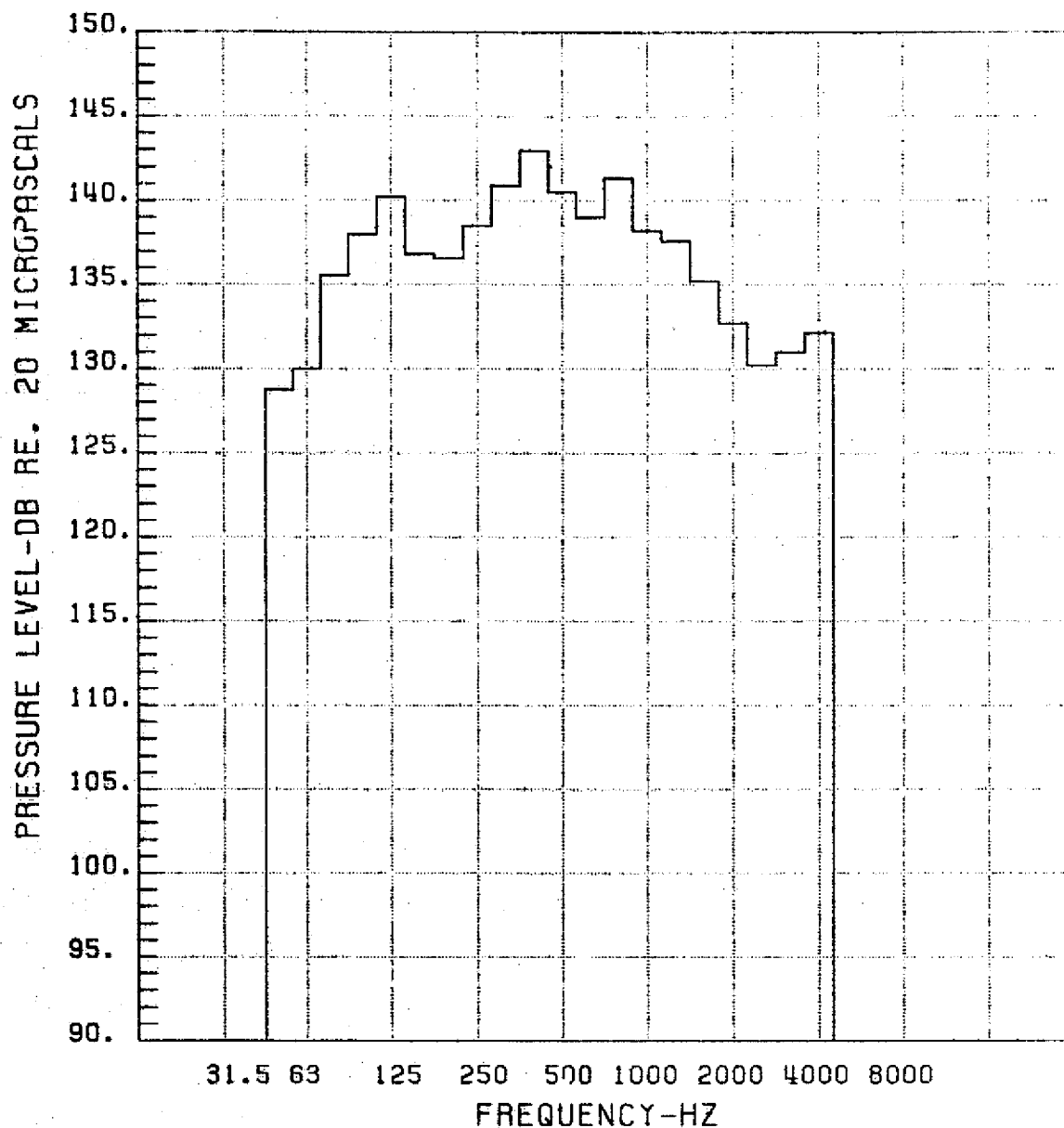
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 597.3 DEG C (1107. DEG F),  
AIR FLOW= 4.90 KG/SEC (10.8 #/SEC), FUEL FLOW= 196. KG/HR (432. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

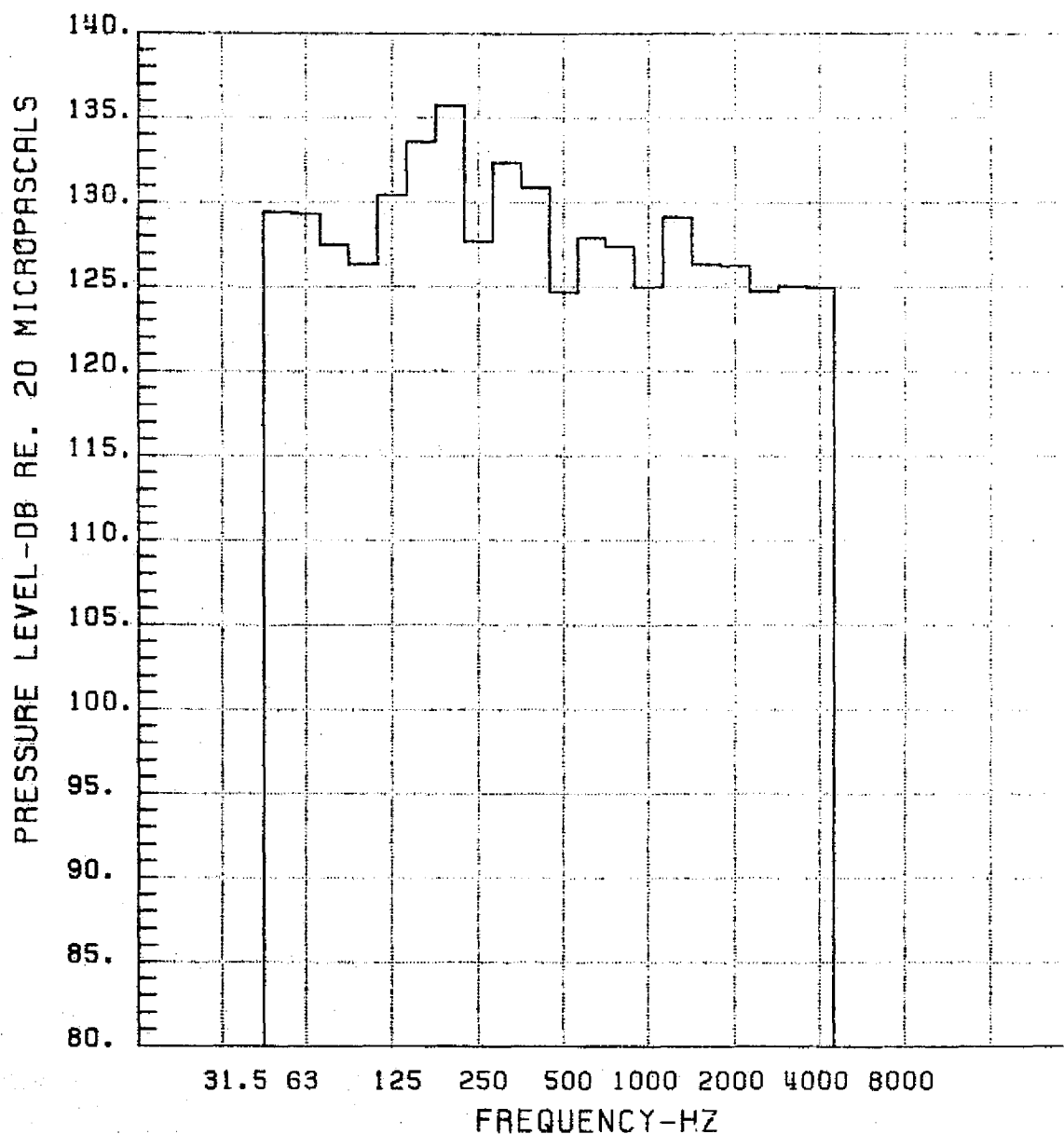
GROUP: IV

RUN NUMBER: 14



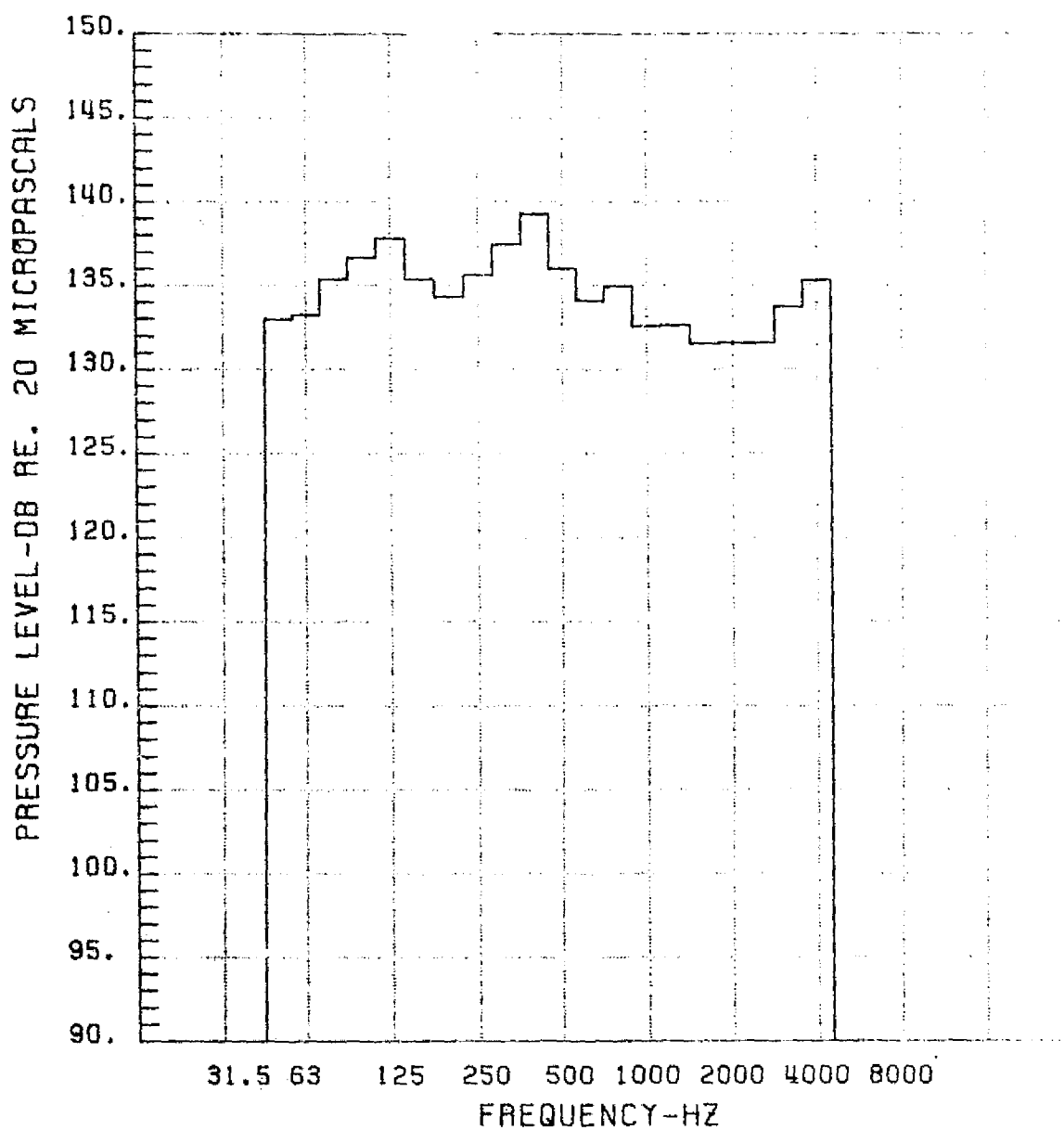
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP=597.3 DEG C (1107. DEG F),  
AIR FLOW=4.90 KG/SEC (10.8 #/SEC), FUEL FLOW=196. KG/HR (432. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: IV RUN NUMBER: 14



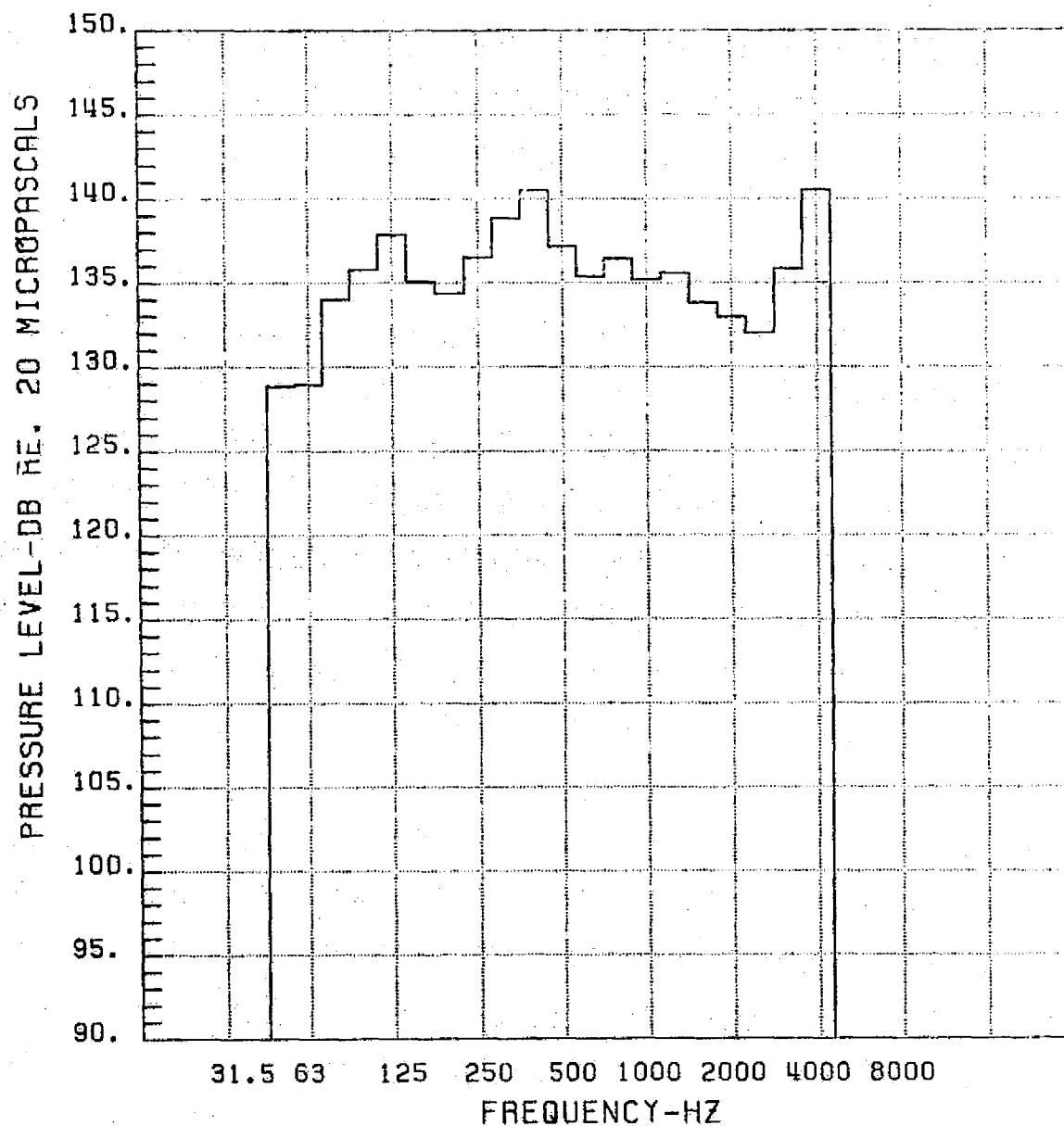
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 597.3 DEG C (1107. DEG F),  
AIR FLOW= 4.90 KG/SEC (10.8 #/SEC), FUEL FLOW= 196. KG/HR (432. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 6. GROUP: IV RUN NUMBER: 14



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

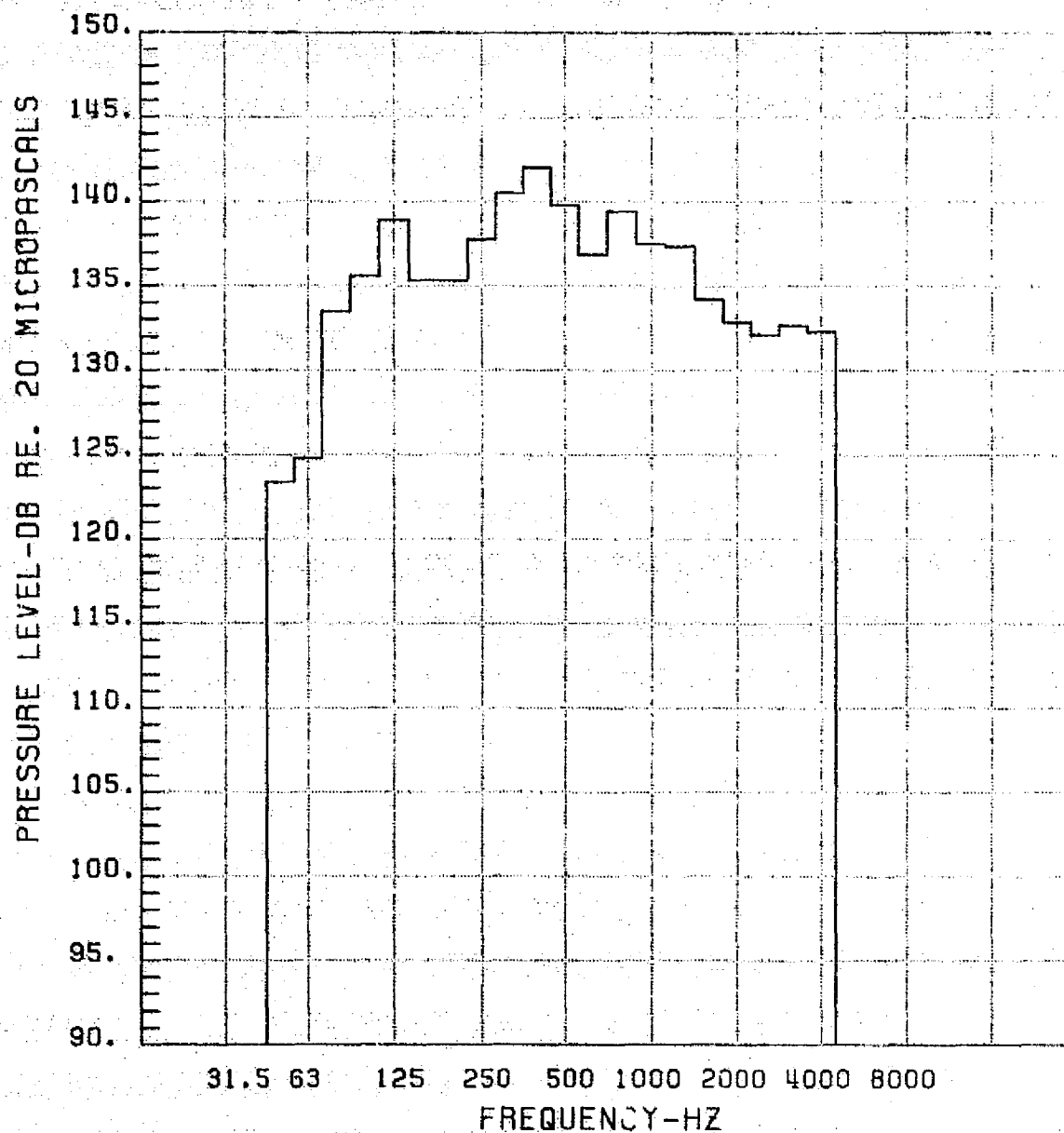
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 377. KPA (54.7 PSIA), COMB EXIT TEMP=598.1 DEG C (1109. DEG F),  
AIR FLOW=5.75 KG/SEC (12.7 #/SEC), FUEL FLOW= 230. KG/HR (506. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: IV RUN NUMBER: 21



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 977. KPA (54.7 PSIA), COMB EXIT TEMP=598.1 DEG C (1109. DEG F),  
AIR FLOW=5.75 KG/SEC (12.7 \*/SEC), FUEL FLOW= 230. KG/HR (506. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 2. GROUP: 1V RUN NUMBER: 21





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

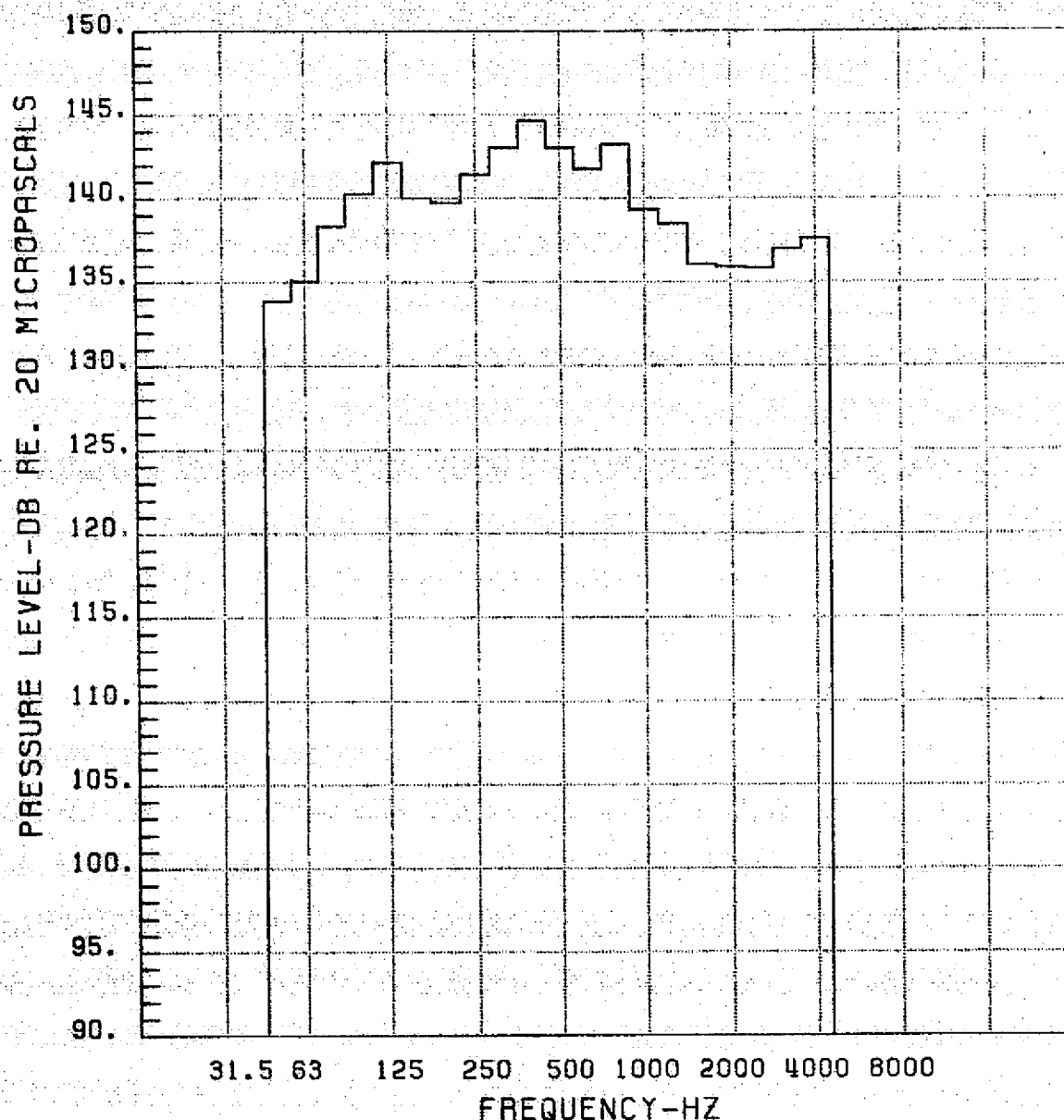
**TITLE:** OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 377. KPA (54.7 PSIA), COMB EXIT TEMP= 598.1 DEG C (1109. DEG F),  
AIR FLOW= 5.75 KG/SEC (12.7 #/SEC), FUEL FLOW= 230. KG/HR (506. #/HR)

**TEST DATE:** 4/19-21/77

**PROBE NUMBER:** 3.

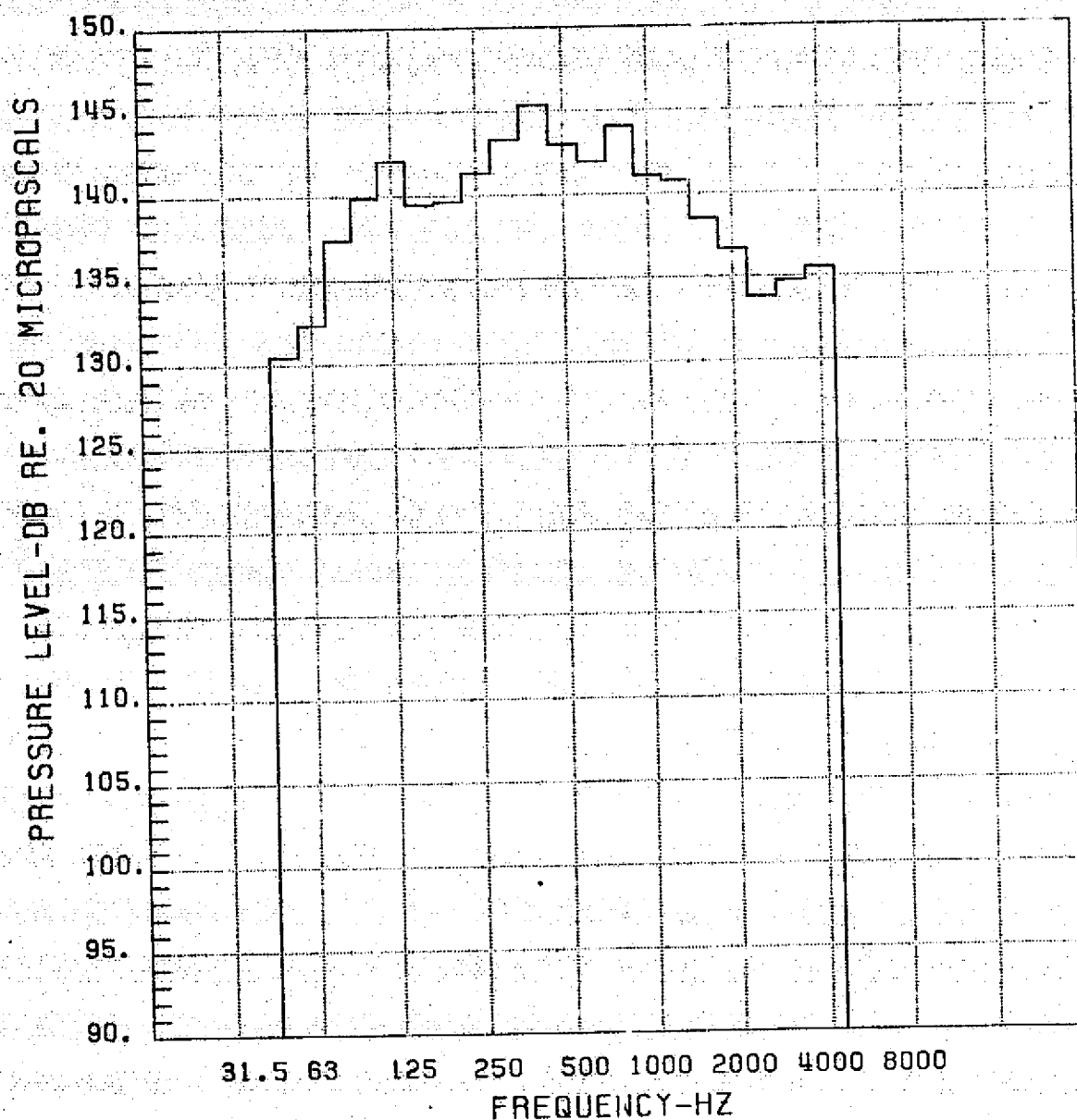
**GROUP:** IV

**RUN NUMBER:** 21



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 377. KPA (54.7 PSIA), COMB EXIT TEMP= 598.1 DEG C (1109. DEG F),  
AIR FLOW= 5.75 KG/SEC (12.7 #/SEC), FUEL FLOW= 230. KG/HR (506. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: IV RUN NUMBER: 21



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

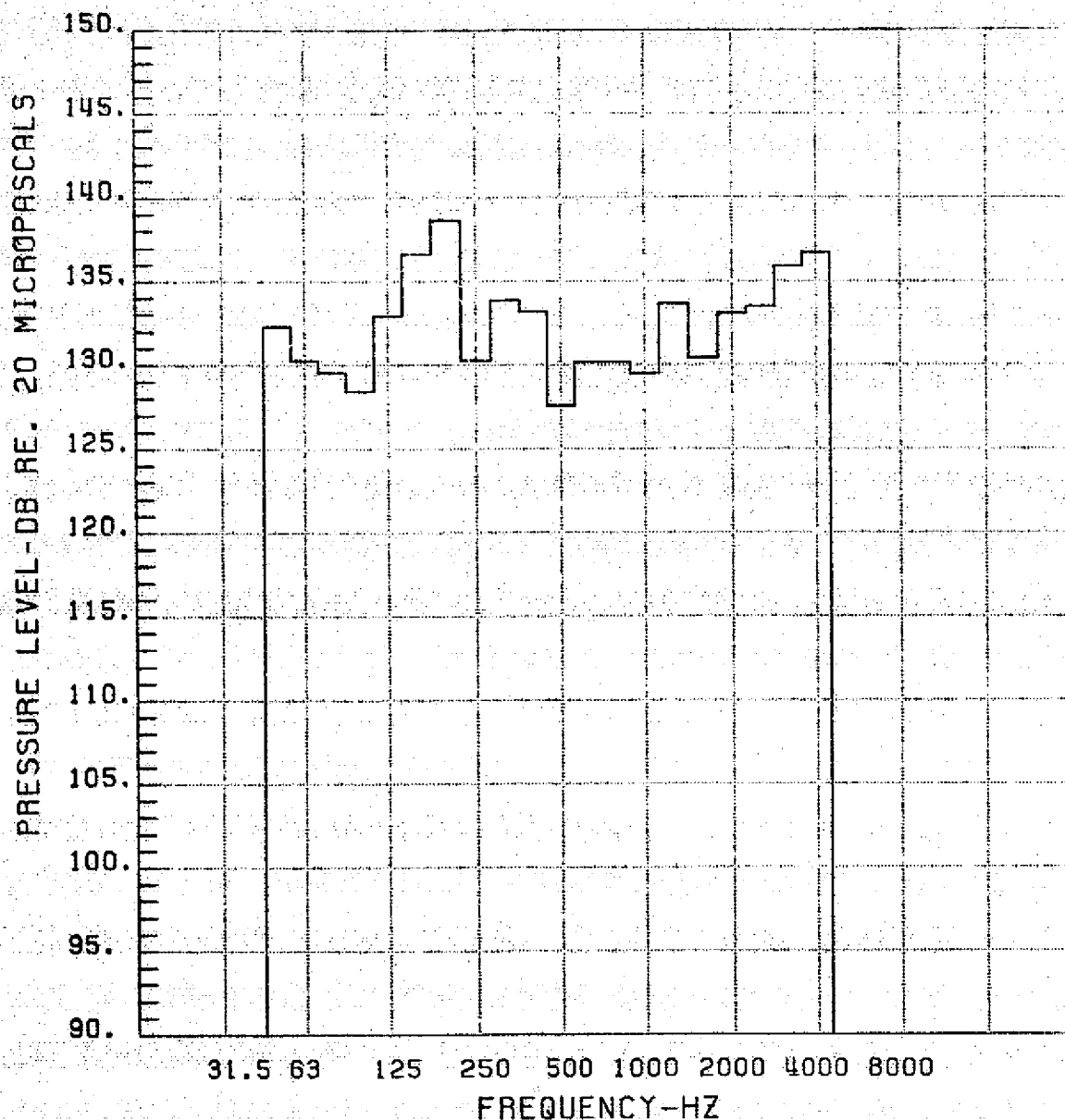
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 977. KPA (54.7 PSIA), COMB. EXIT TEMP= 598.1 DEG. C (1109. DEG. F),  
AIR FLOW= 5.75 KG/SEC (12.7 #/SEC), FUEL FLOW= 230. KG/HR (506. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

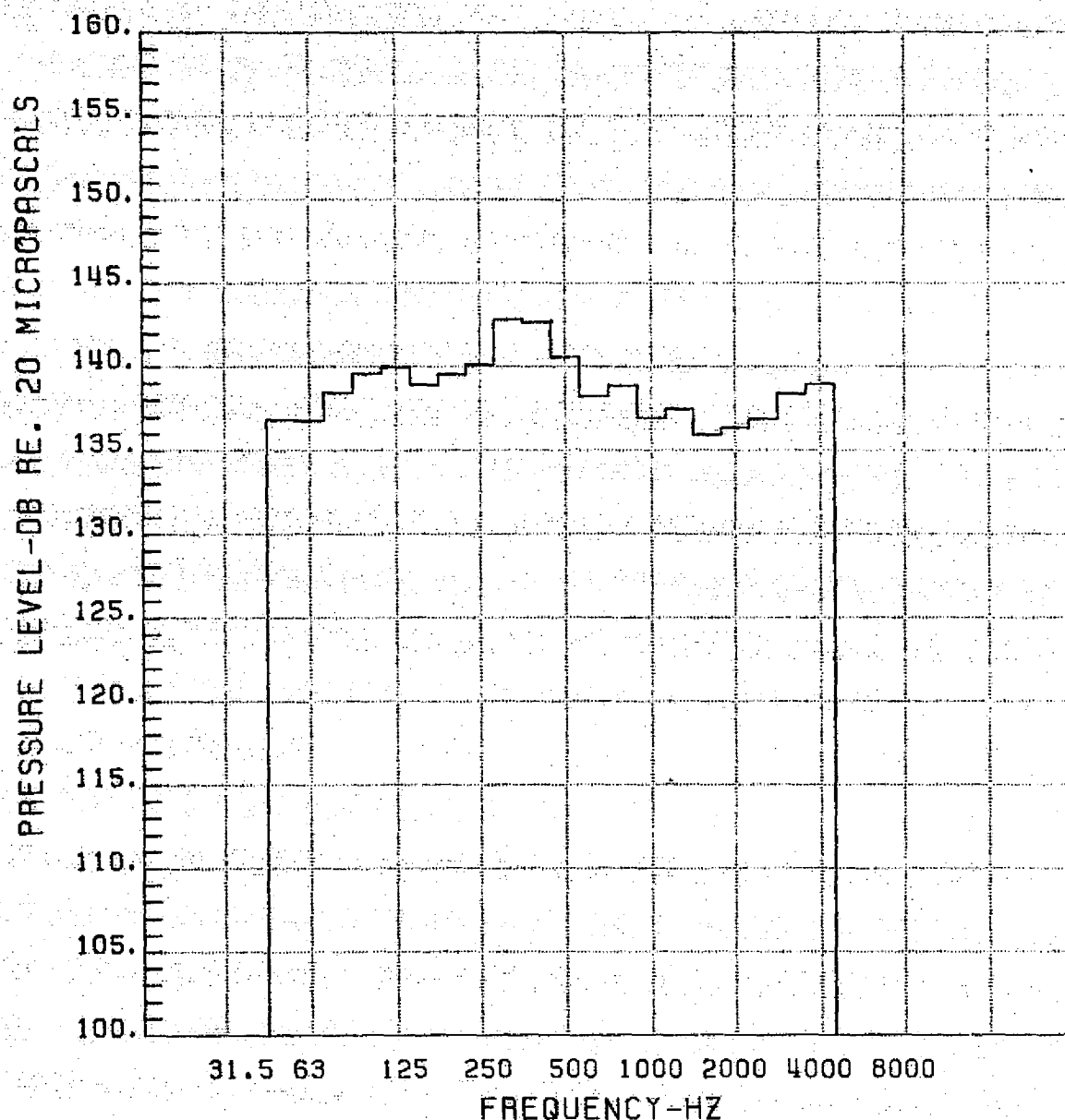
GROUP: IV

RUN NUMBER: 21



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 377. KPA (54.7 PSIA), COMB EXIT TEMP=598.1 DEG C (1109. DEG F),  
AIR FLOW=5.75 KG/SEC (12.7 #/SEC), FUEL FLOW= 230. KG/HR (506. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 6. GROUP: IV RUN NUMBER: 21



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

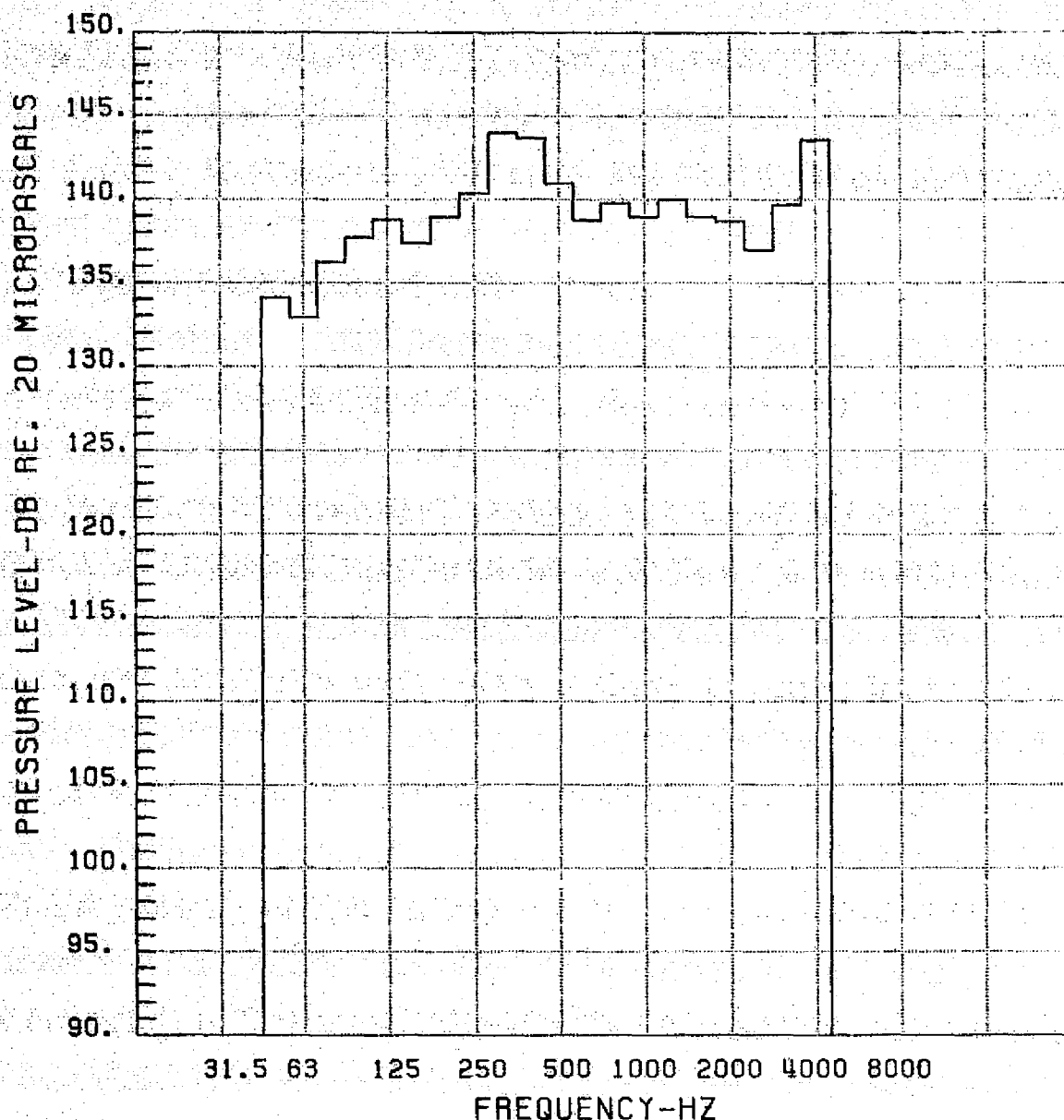
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=604.7 DEG C (1121. DEG F),  
AIR FLOW=0.01 KG/SEC (17.7 #/SEC), FUEL FLOW= 325. KG/HR (716. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

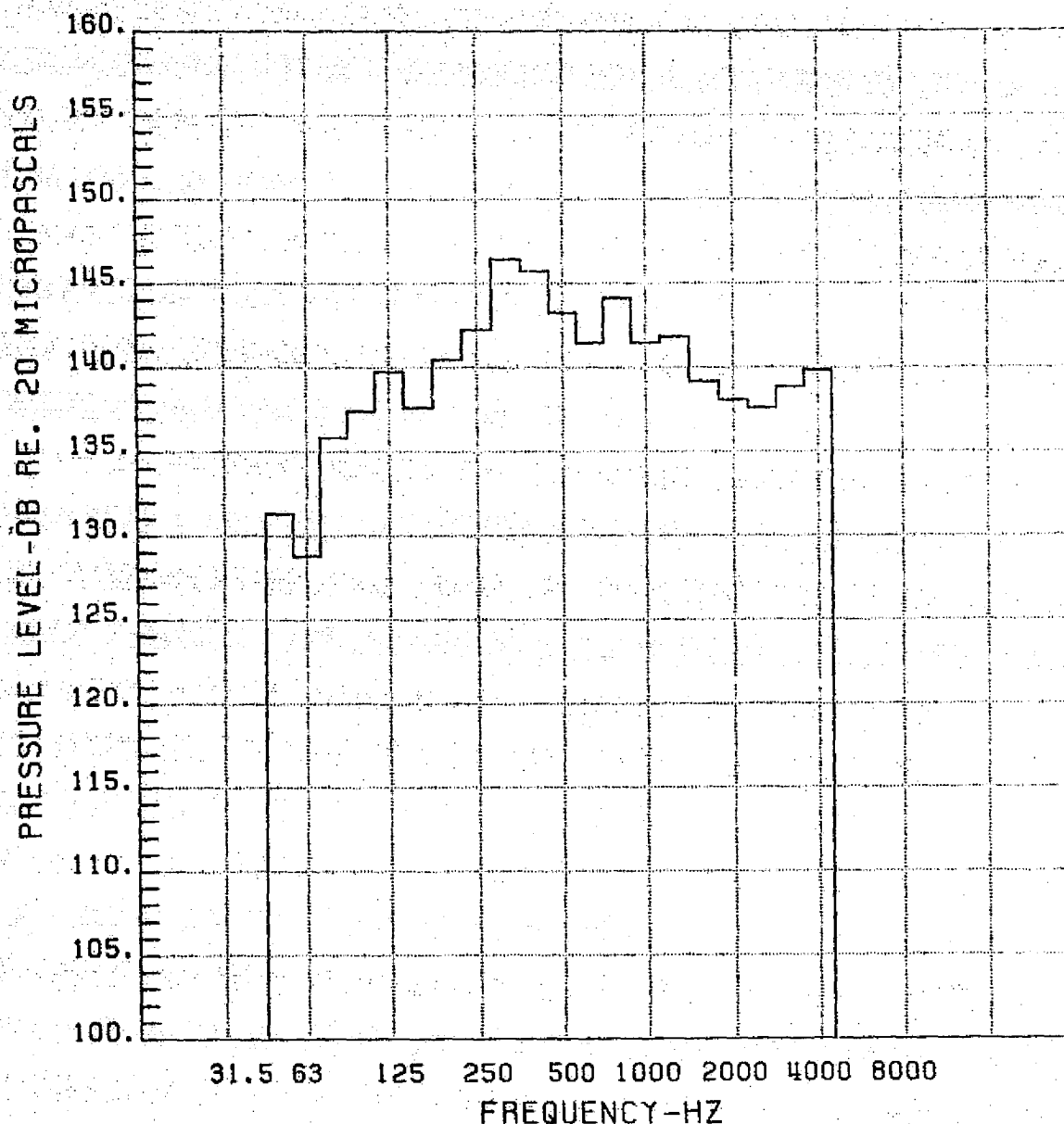
GROUP: IV

RUN NUMBER: 15



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

**TITLE:** OFF DESIGN AIR FLOW OPERATING POINTS  
**INLET PRESS=** 374. KPA (54.3 PSIA), **COMB EXIT TEMP=** 604.7 DEG C (1121. DEG F),  
**AIR FLOW=** 8.01 KG/SEC (17.7 #/SEC), **FUEL FLOW=** 325. KG/HR (716. #/HR)  
**TEST DATE:** 4/19-21/77  
**PROBE NUMBER:** 2. **GROUP:** IV **RUN NUMBER:** 15



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497

### ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP= 604.7 DEG C (1121. DEG F),  
AIR FLOW= 8.01 KG/SEC (17.7 \*/SEC), FUEL FLOW= 325. KG/HR (716. \*/HR)

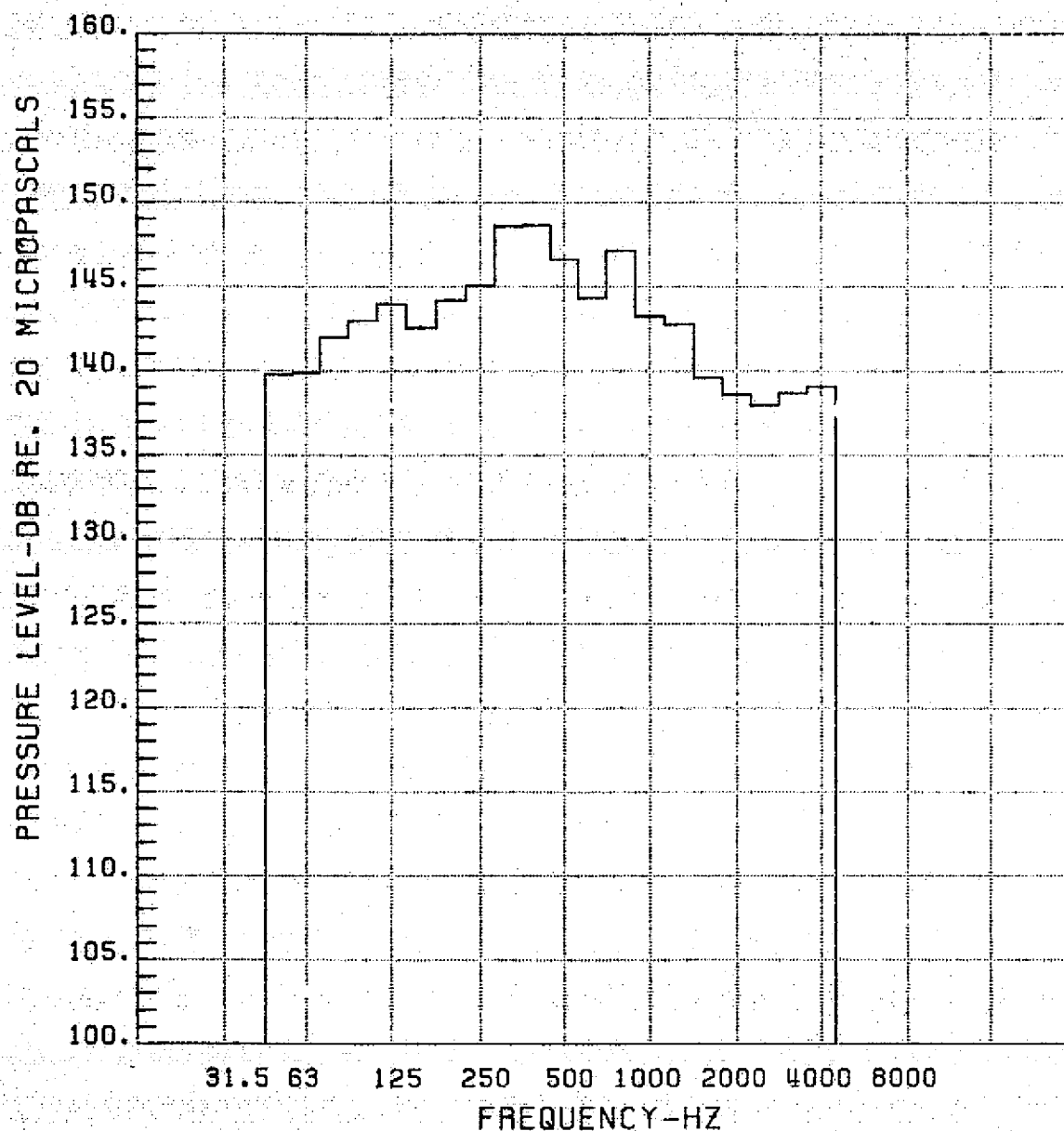
TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: IV

RUN NUMBER: 15





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP= 604.7 DEG C (1121. DEG F),  
AIR FLOW= 8.01 KG/SEC (17.7 #/SEC), FUEL FLOW= 325. KG/HR (716. #/HR)

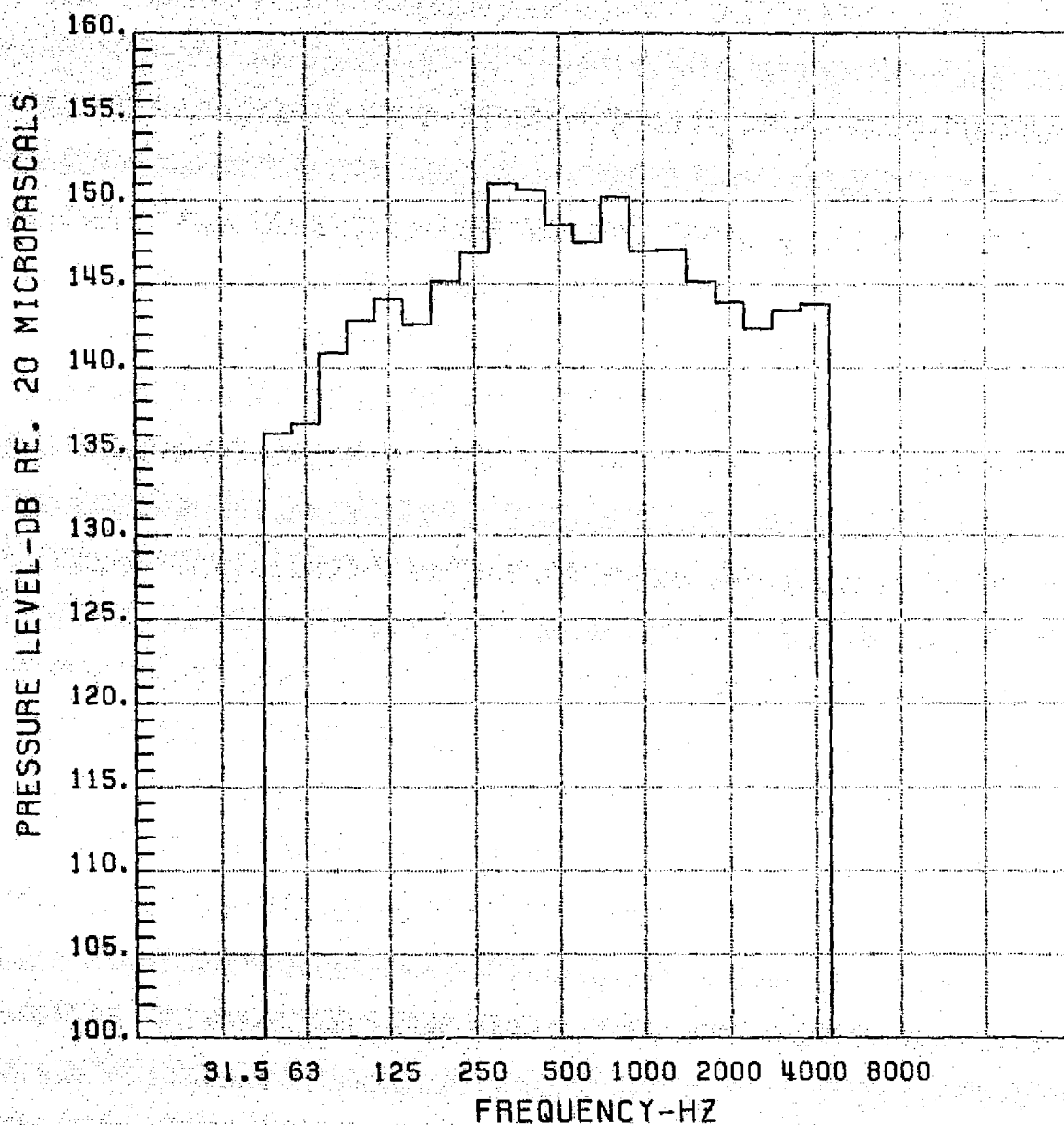
TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: IV

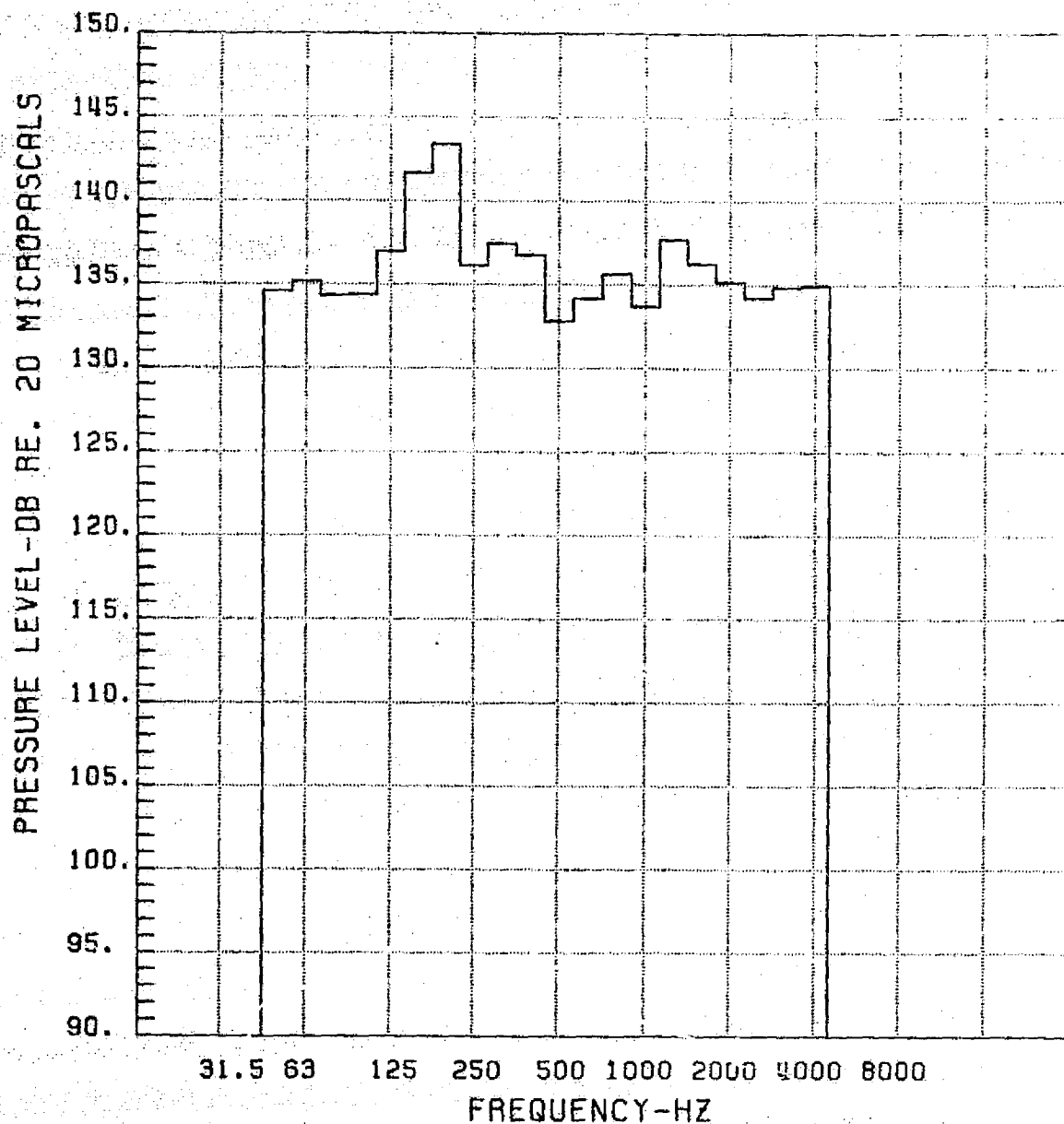
RUN NUMBER: 15





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3PSIA), COMB EXIT TEMP=604.7 DEG C(1121. DEG F),  
AIR FLOW=8.01 KG/SEC(17.7 \*/SEC), FUEL FLOW= 325. KG/HR( 716. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: IV RUN NUMBER: 15



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAMFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

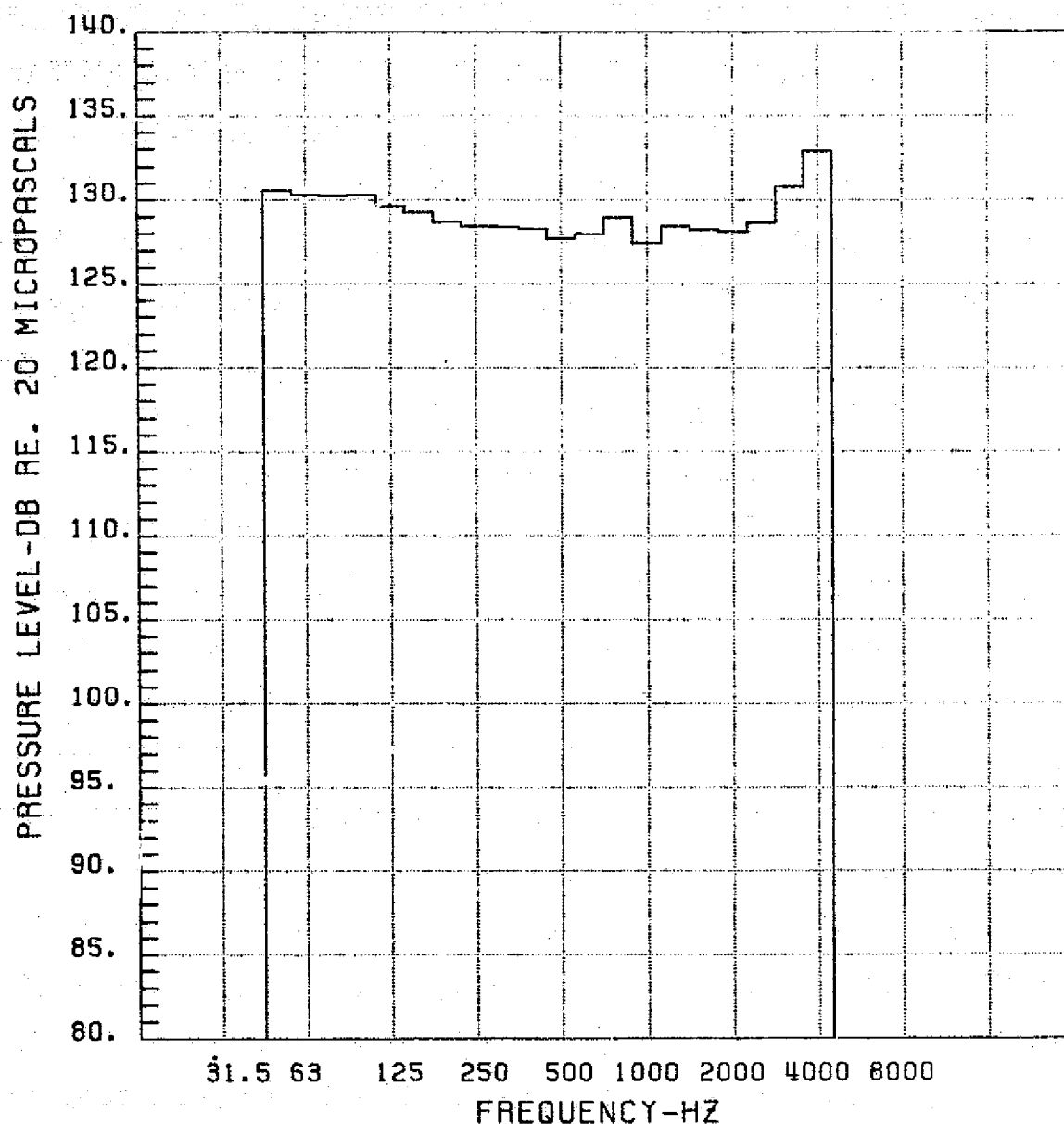
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.3PSIA), COMB EXIT TEMP= 604.7 DEG C (1121. DEG F),  
AIR FLOW= 8.01 KG/SEC (17.7 \*/SEC), FUEL FLOW= 325. KG/HR (716. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: IV

RUN NUMBER: 15



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

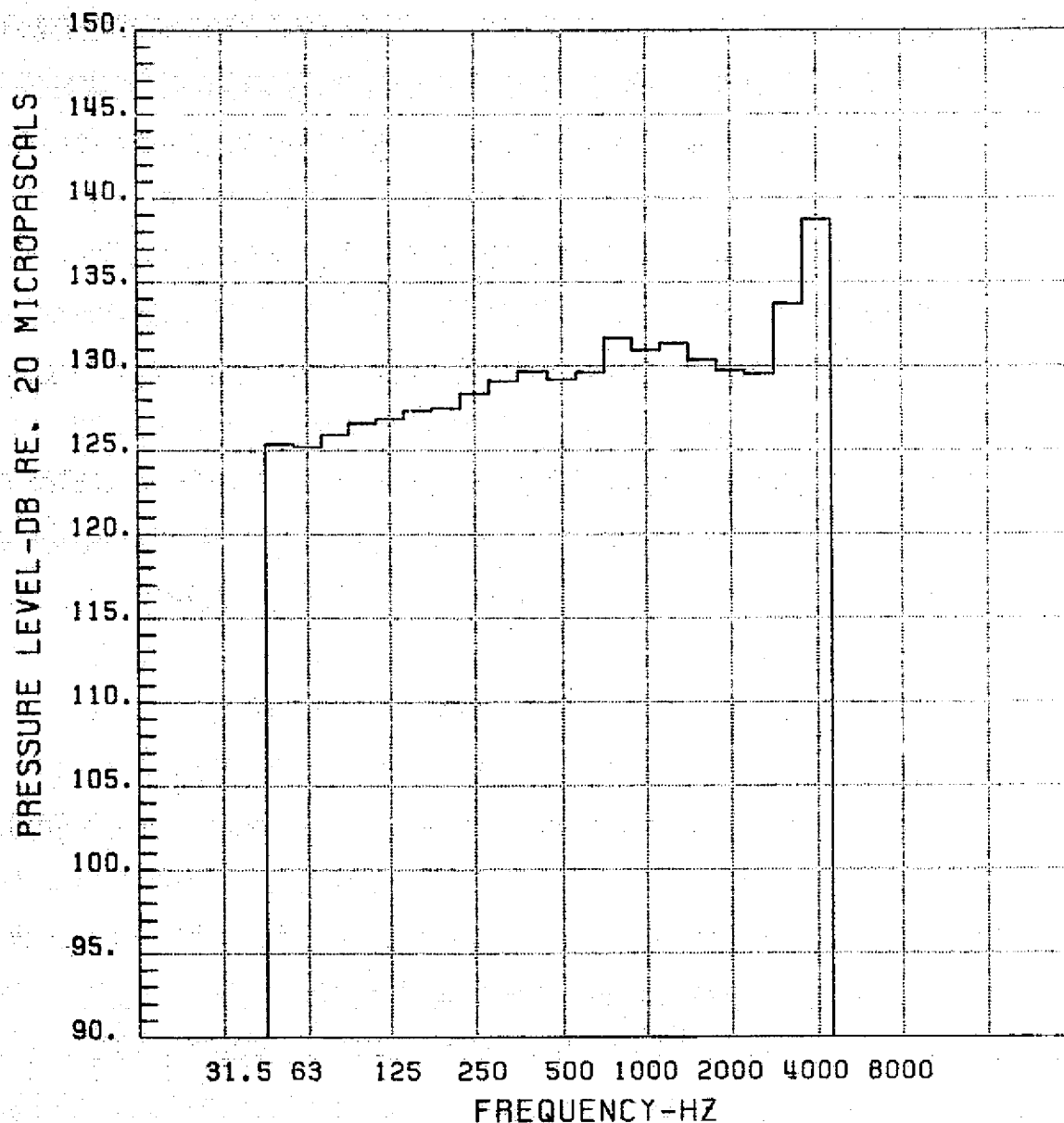
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 171.8 DEG C (341. DEG F),  
AIR FLOW= 4.88 KG/SEC (10.8 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

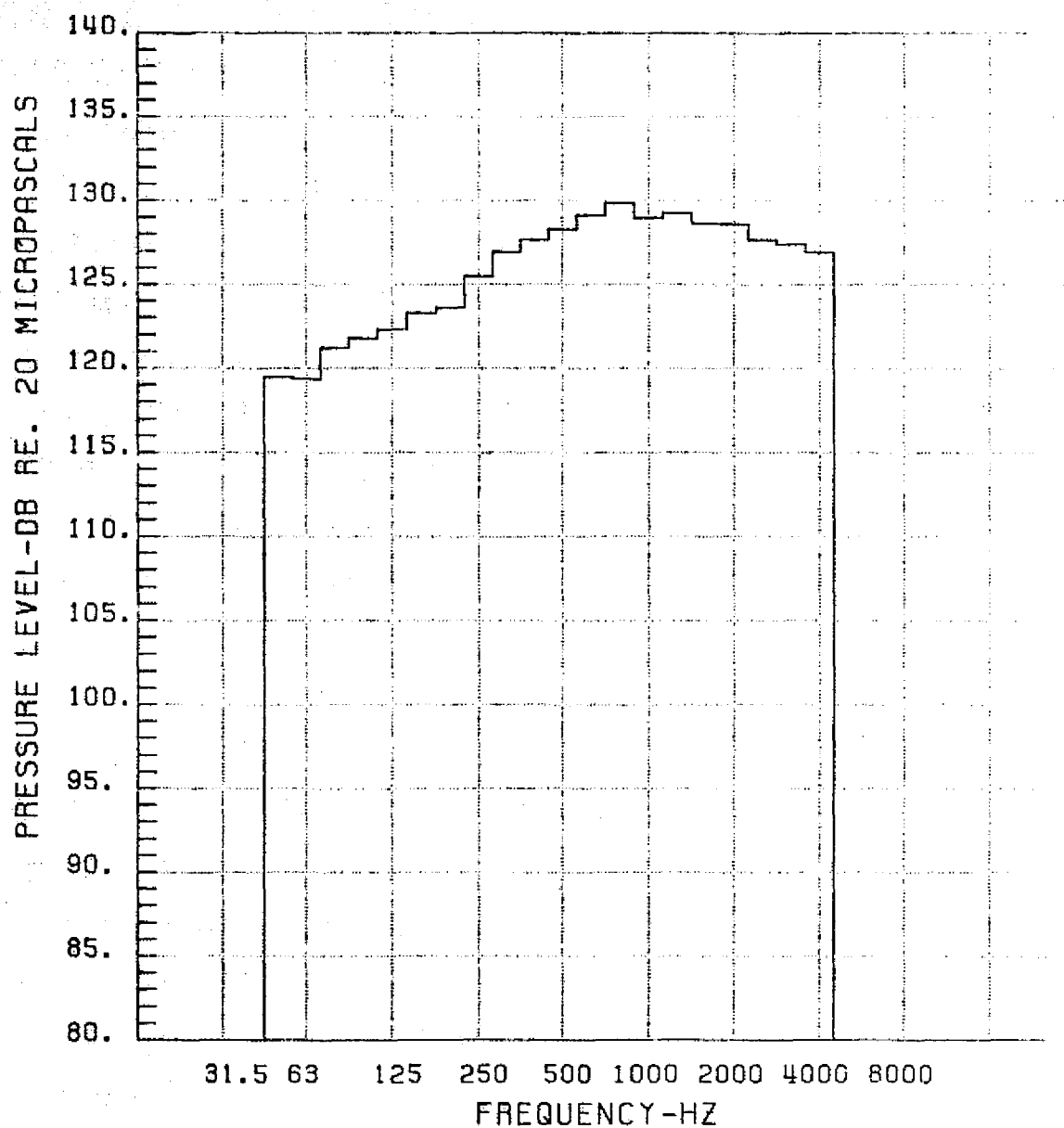
GROUP: IV

RUN NUMBER: 16



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 171.8 DEG C (341. DEG F),  
AIR FLOW= 4.88 KG/SEC (10.8 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 2. GRD. #: IV RUN NUMBER: 16



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

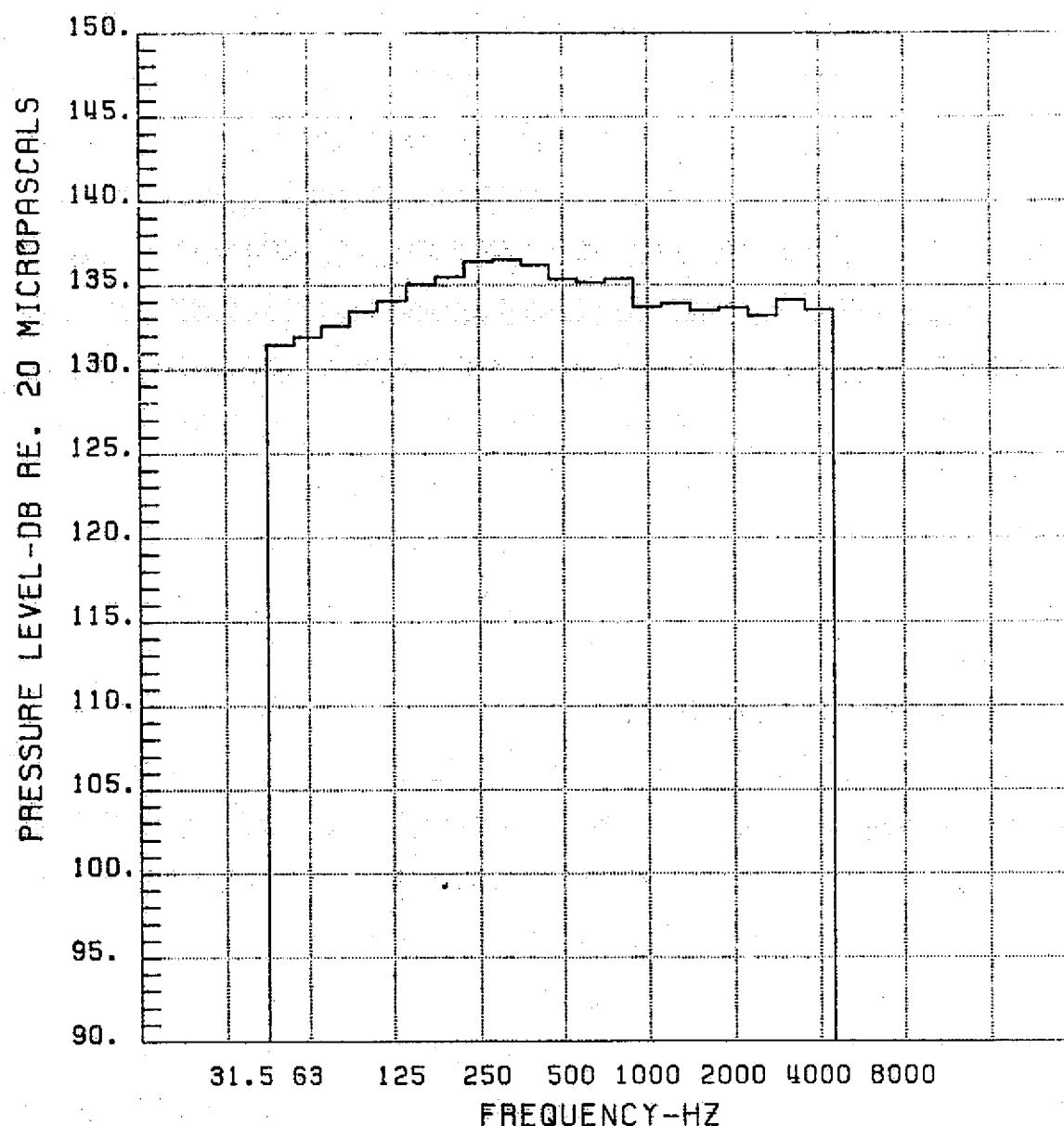
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 171.8 DEG C (341. DEG F),  
AIR FLOW= 4.88 KG/SEC (10.8 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: IV

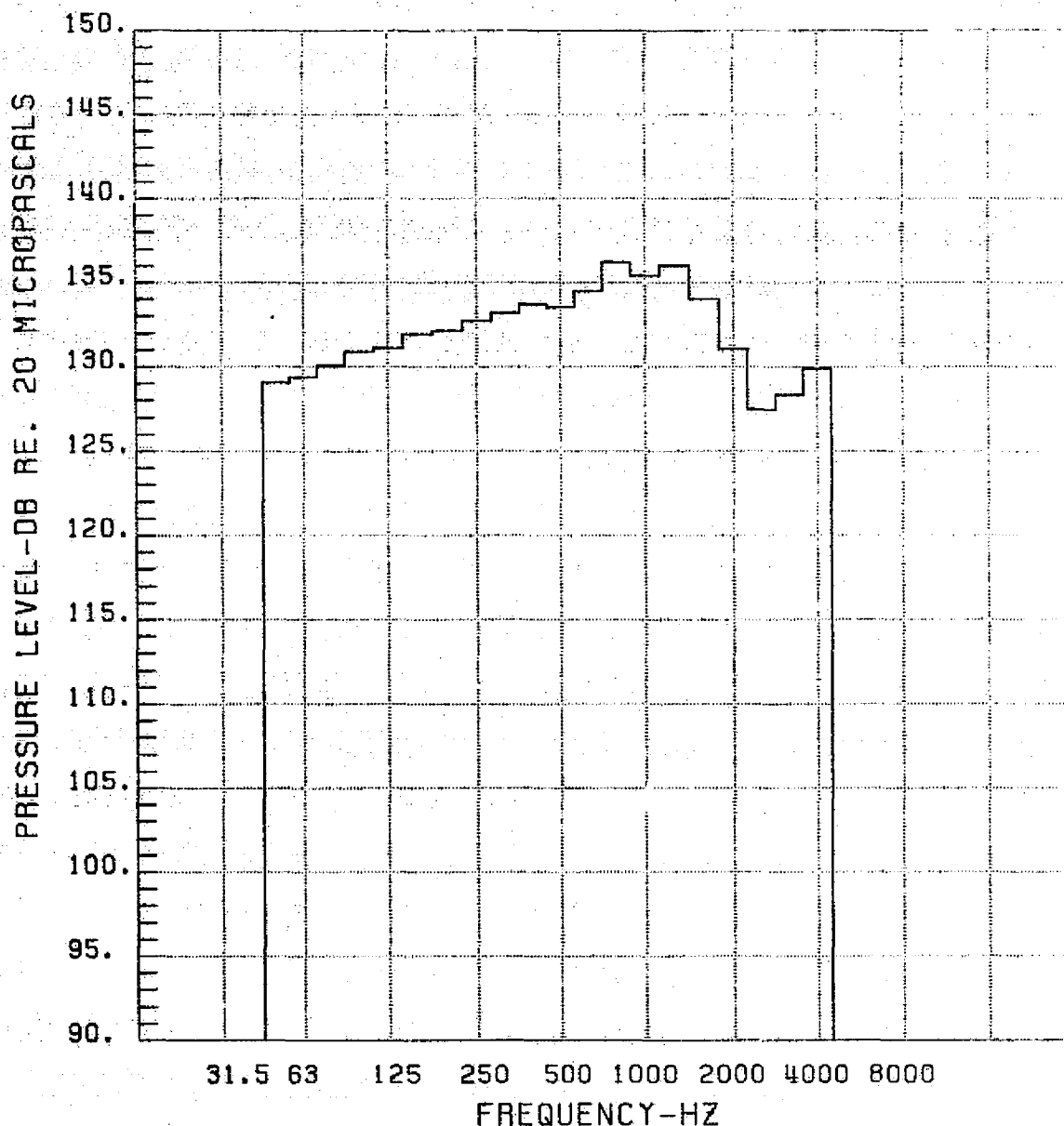
RUN NUMBER: 16



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497

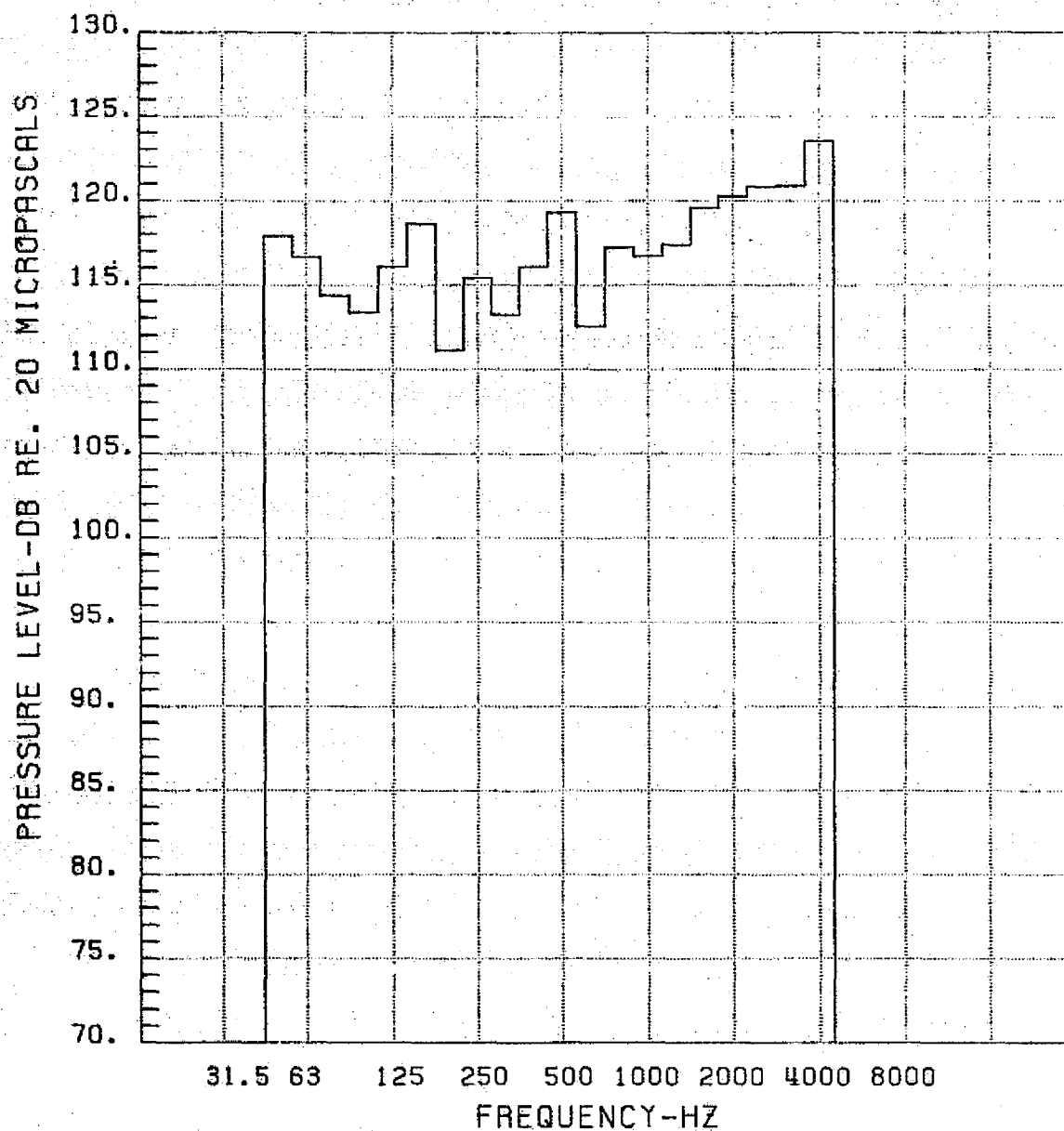
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 171.8 DEG C (341. DEG F),  
AIR FLOW= 4.86 KG/SEC (10.8 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: IV RUN NUMBER: 16



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 171.8 DEG C (341. DEG F),  
AIR FLOW= 4.88 KG/SEC (10.8 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: IV RUN NUMBER: 16



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP=171.8 DEG C (341. DEG F).  
AIR FLOW=4.88 KG/SEC (10.8 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)

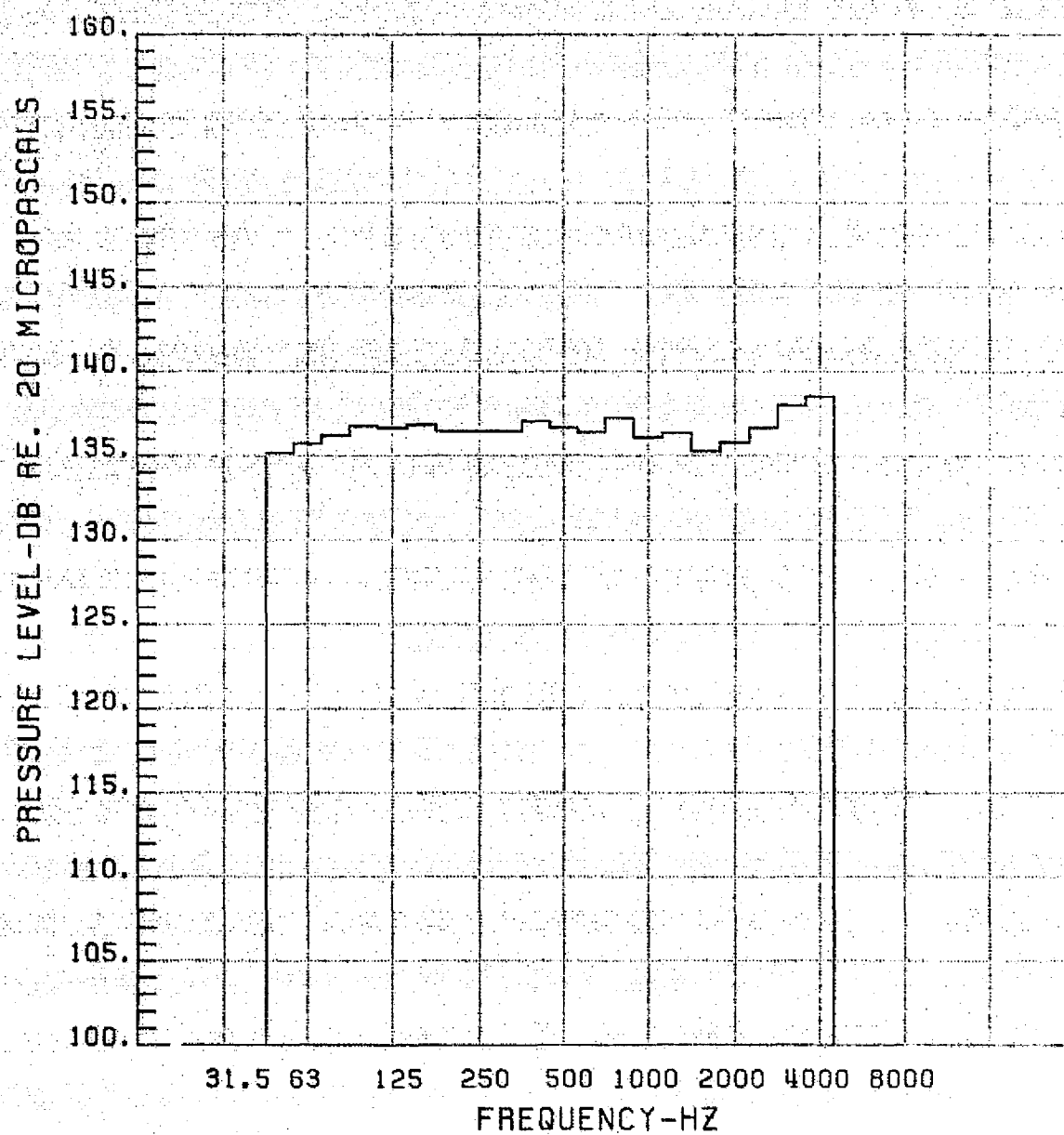
TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: IV

RUN NUMBER: 16





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497

### ONE THIRD OCTAVE BAND ANALYSIS

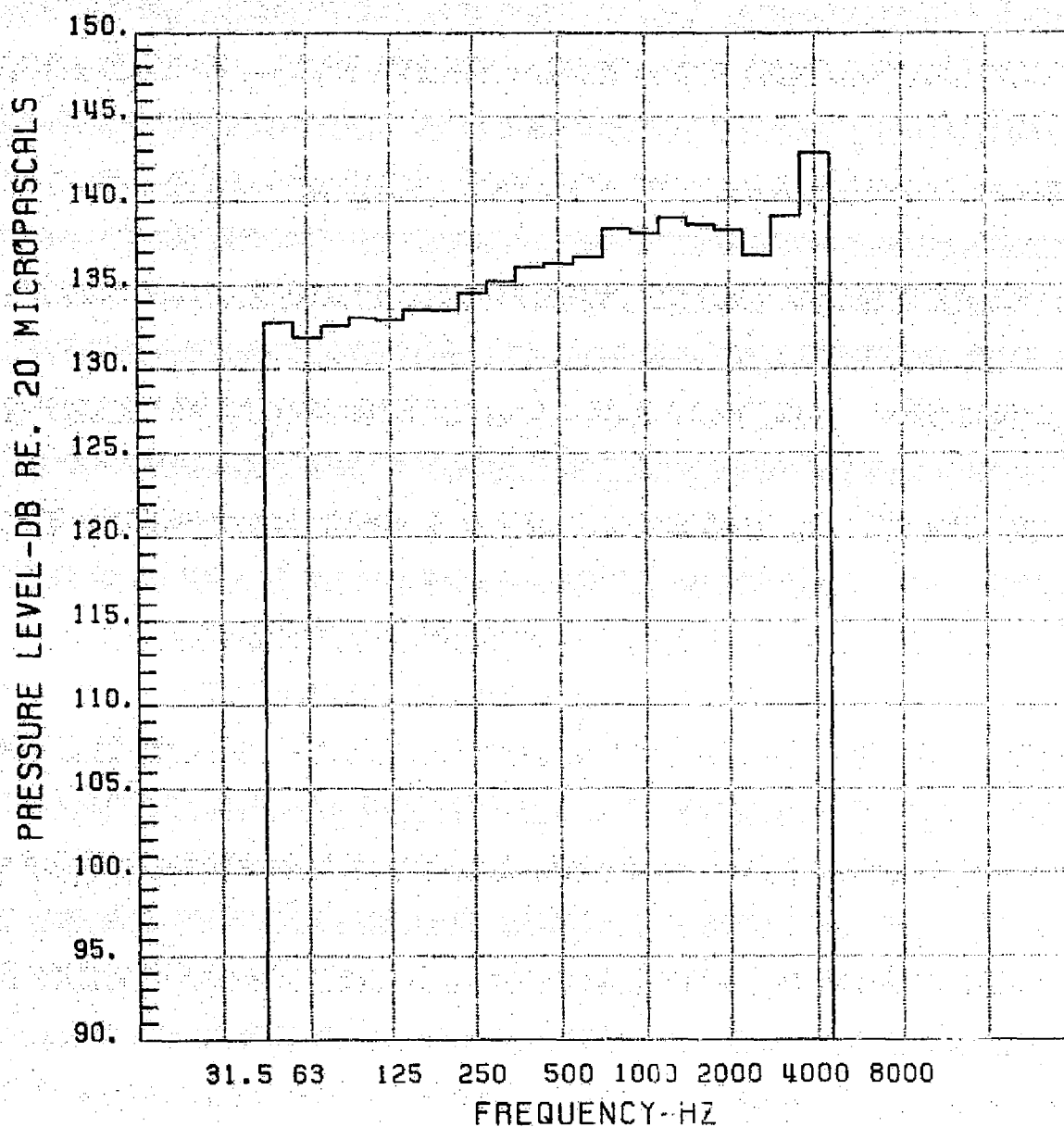
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 373. KPA (54.1 PSIA), COMB EXIT TEMP=172.6 DEG C (343. DEG F),  
AIR FLOW=8.10 KG/SEC (17.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

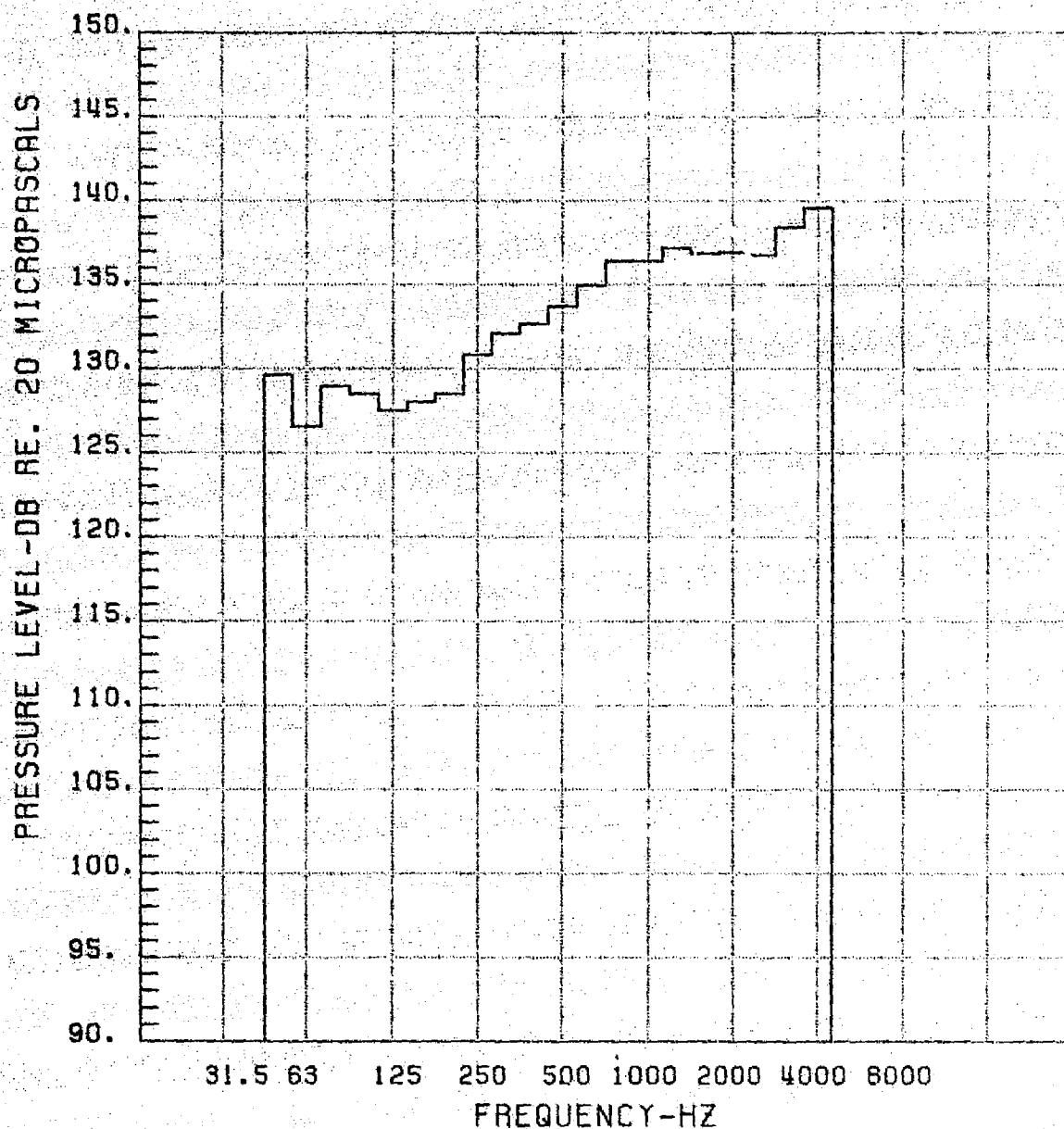
GROUP: IV

RUN NUMBER: 17

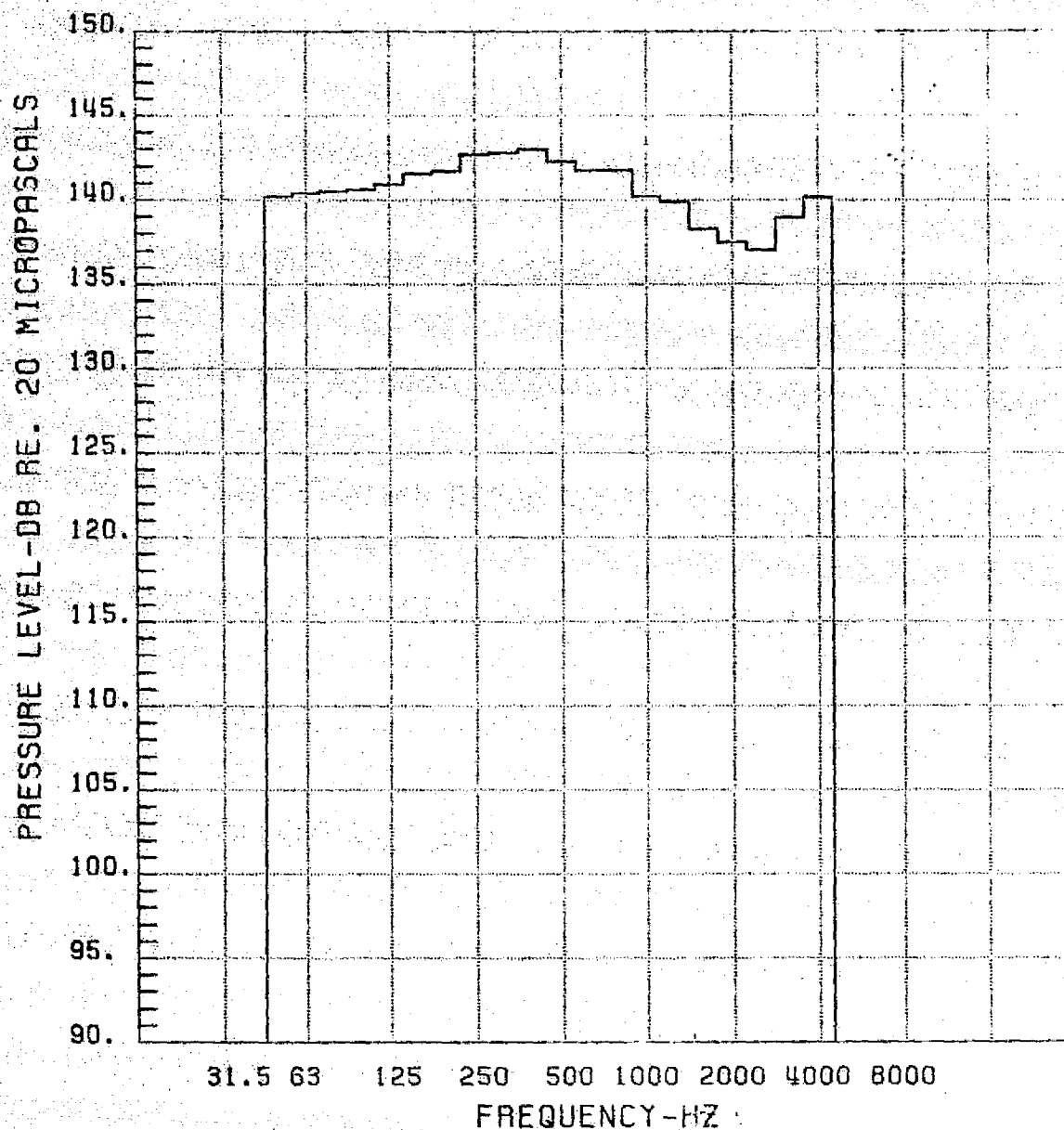


AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 373. KPA (54.1 PSIA), COMB EXIT TEMP=172.6 DEG C (343. DEG F),  
AIR FLOW=8.10 KG/SEC (17.9 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 2. GROUP: IV RUN NUMBER: 17

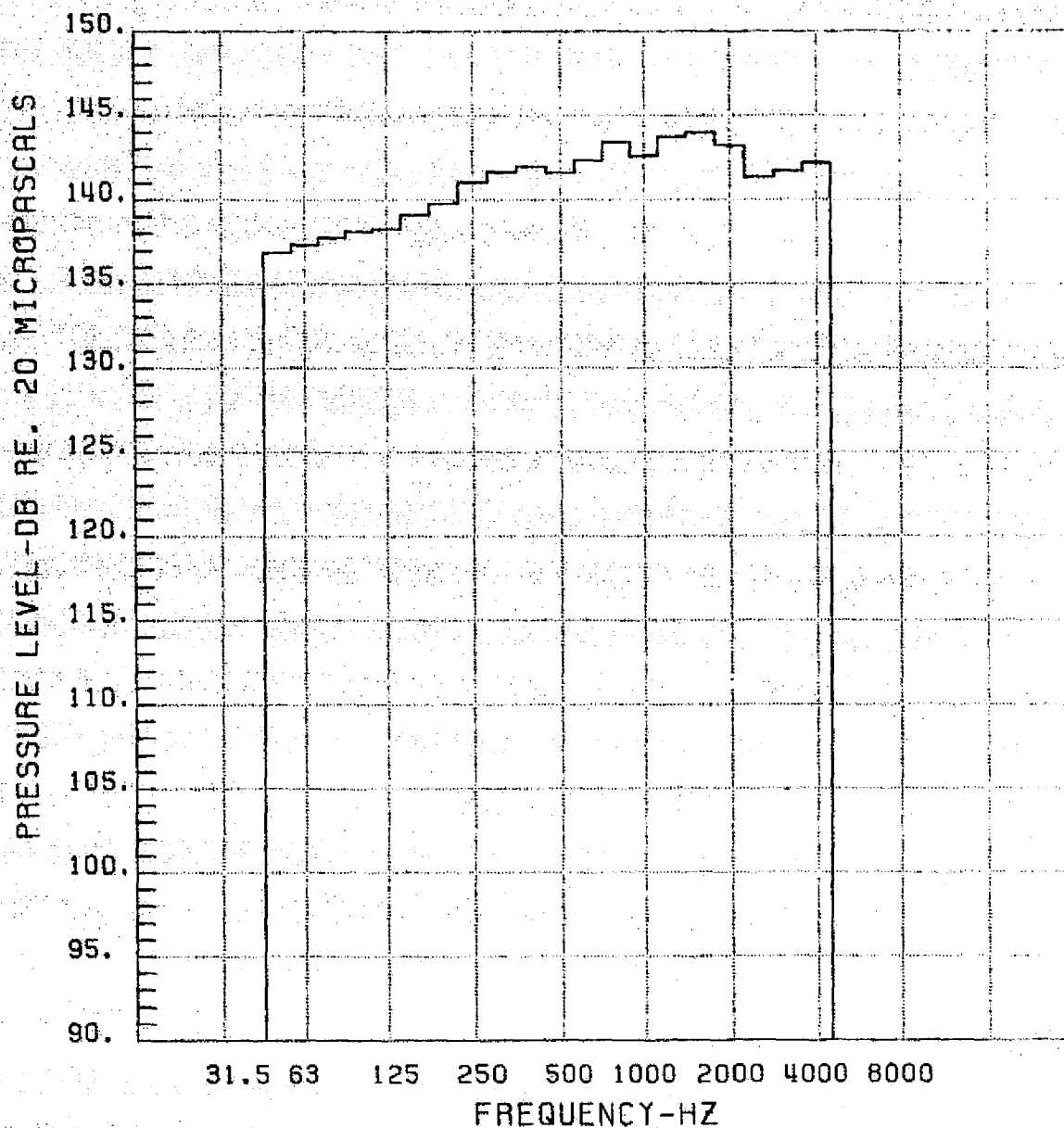


<b>AVCO-LYCOMING DIVISION</b> 550 SOUTH MAIN ST., STRATFORD, CONN. 06497 <b>ONE THIRD OCTAVE BAND ANALYSIS</b>		
<b>TITLE:</b> OFF DESIGN AIR FLOW OPERATING POINTS INLET PRESS= 973. KPA (54.1 PSIA), COMB EXIT TEMP= 172.6 DEG C (343. DEG F), AIR FLOW= 8.10 KG/SEC (17.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)		
<b>TEST DATE:</b> 4/19-21/77		
<b>PROBE NUMBER:</b> 3.	<b>GROUP:</b> IV	<b>RUN NUMBER:</b> 17



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 373. KPA (54.1 PSIA), COMB EXIT TEMP=172.6 DEG C (343. DEG F),  
AIR FLOW=8.10 KG/SEC (17.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: IV RUN NUMBER: 17



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497

### ONE THIRD OCTAVE BAND ANALYSIS

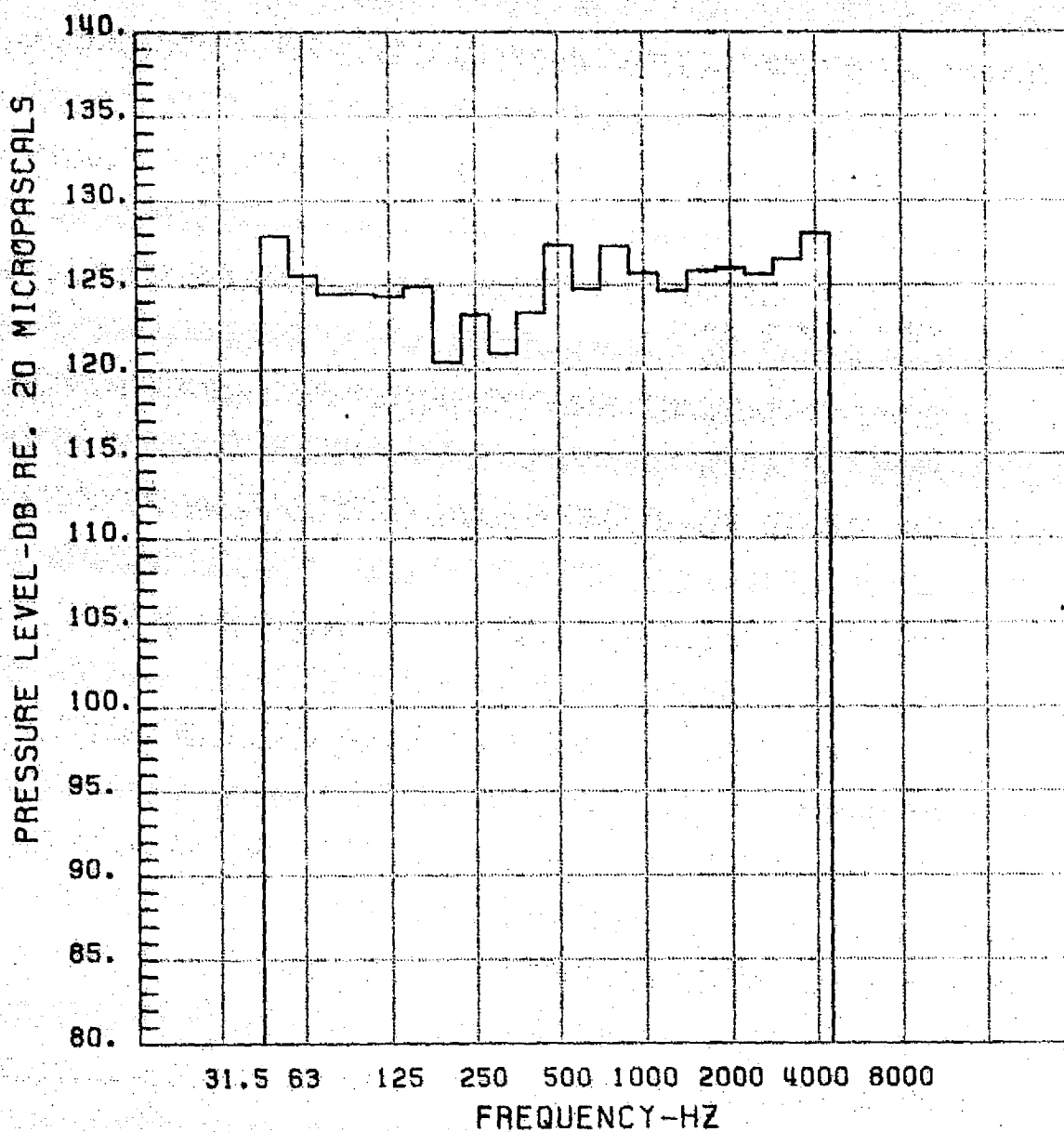
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 373. KPA (54.1 PSIA), COMB EXIT TEMP= 172.6 DEG C (343. DEG F),  
AIR FLOW= 8.10 KG/SEC (17.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: IV

RUN NUMBER: 17



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

**TITLE:** OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 373. KPA (54.1 PSIA), COMB EXIT TEMP=172.8 DEG C (343. DEG F),  
AIR FLOW=8.10 KG/SEC (17.9 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)

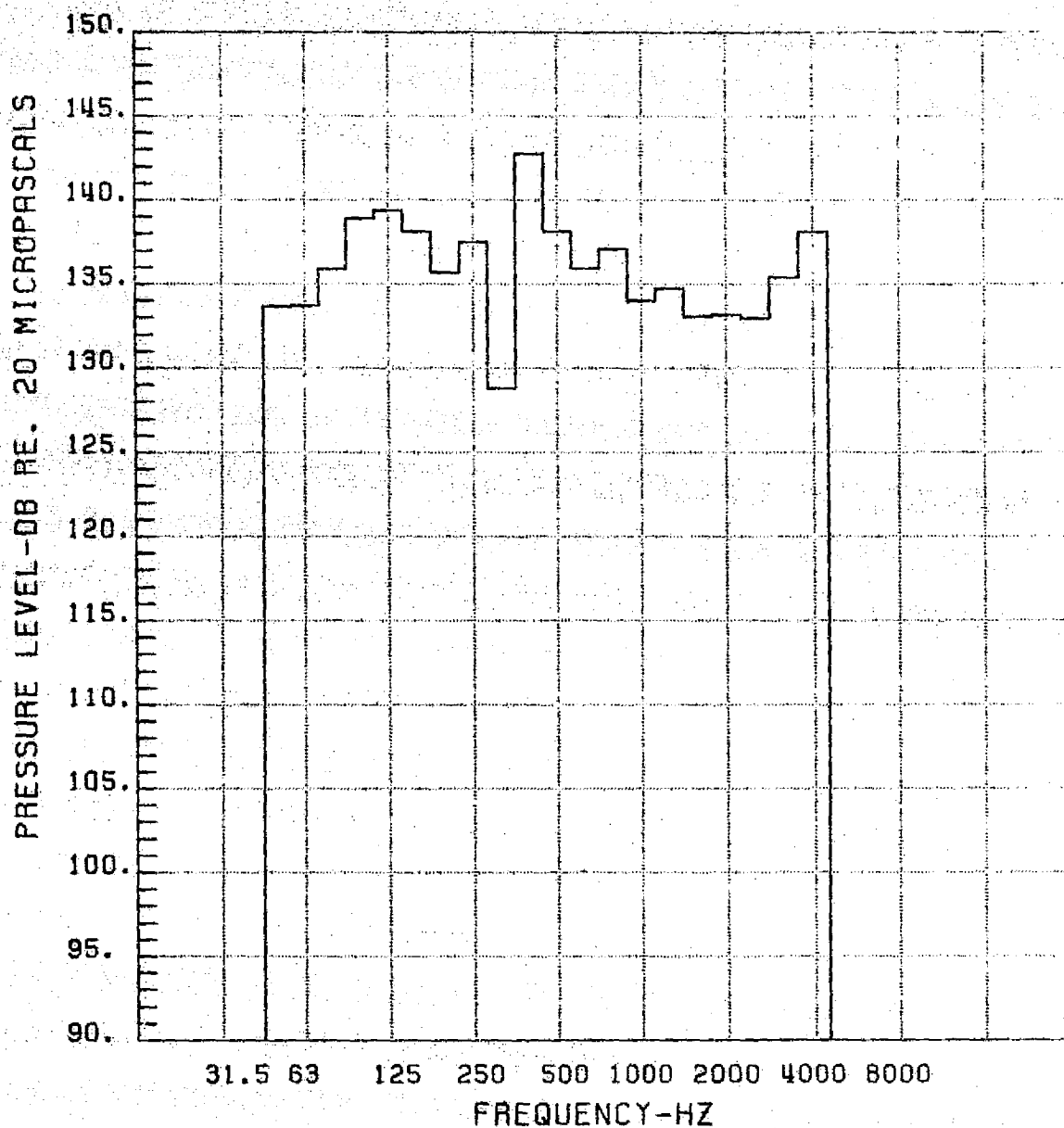
**TEST DATE:** 4/19-21/77

**PROBE NUMBER:** 6.

**GROUP:** JV

**RUN NUMBER:** 17





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

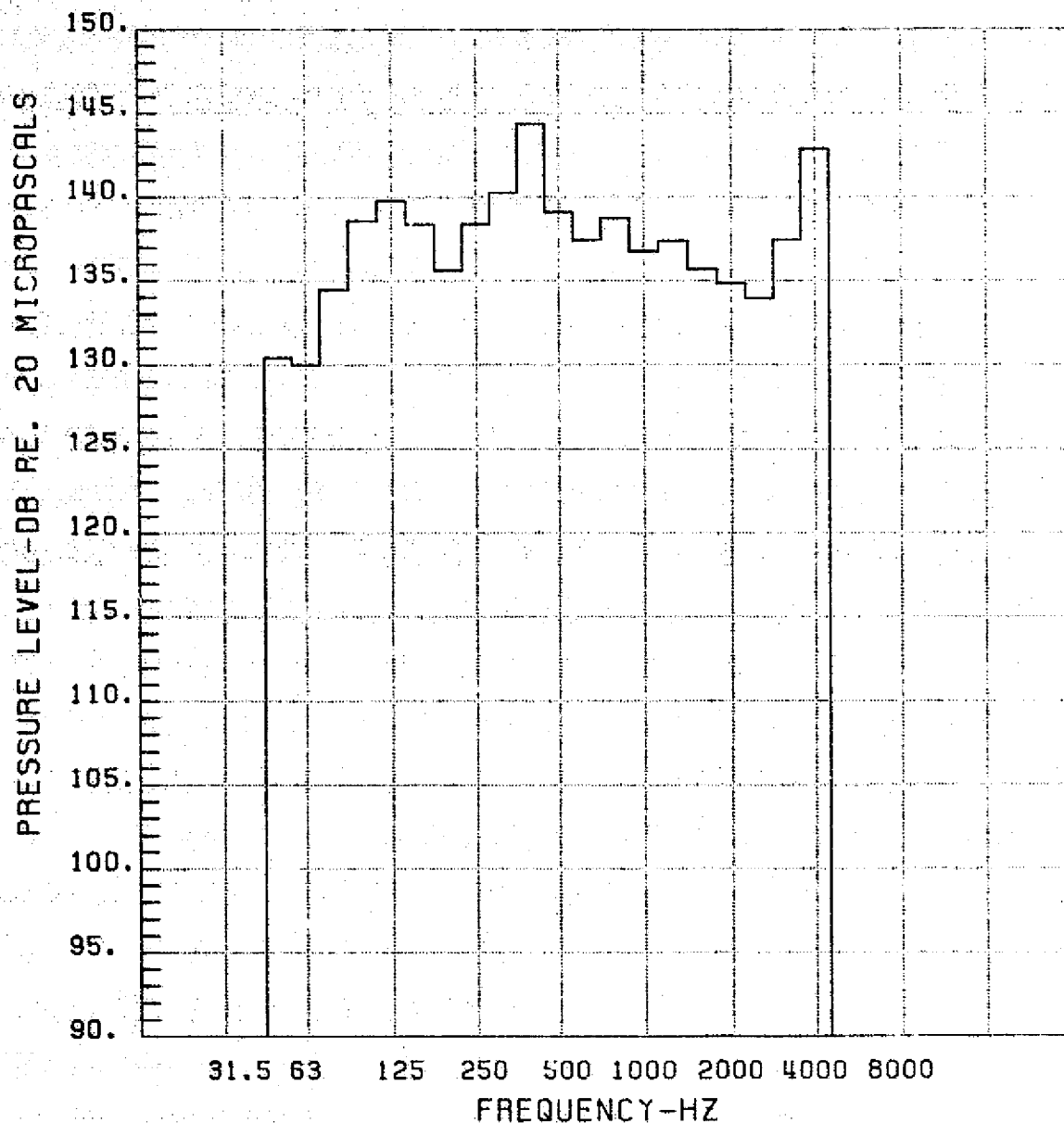
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.3 PSIA), COMB EXIT TEMP=690.8 DEG C (1275. DEG F),  
AIR FLOW=7.14 KG/SEC (15.7 #/SEC), FUEL FLOW= 316. KG/HR (696. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: IV

RUN NUMBER: 26



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.3 PSIA), COMB EXIT TEMP= 690.8 DEG C (1275. DEG F),  
AIR FLOW= 7.14 KG/SEC (15.7 #/SEC), FUEL FLOW= 316. KG/HR (696. #/HR)

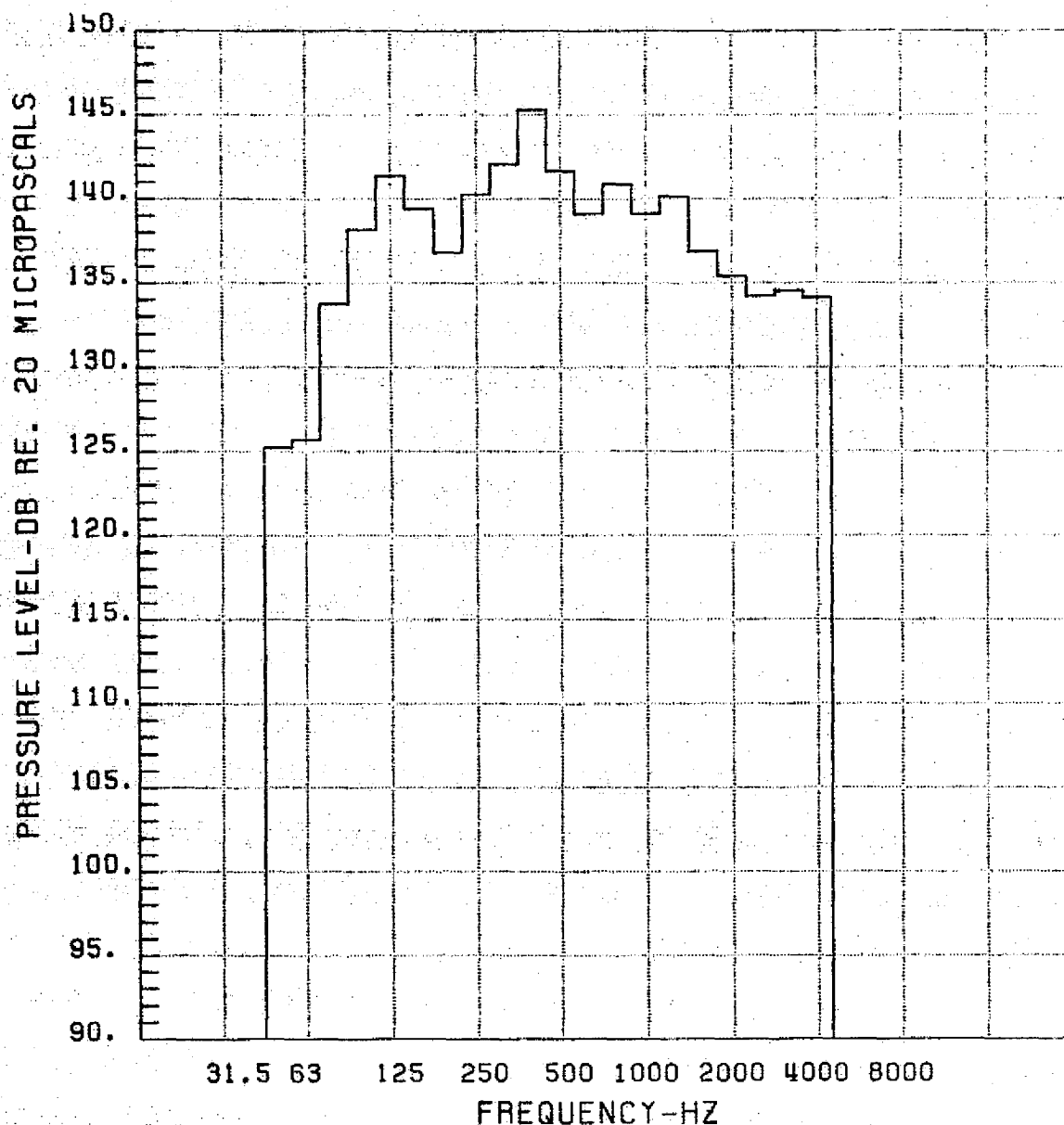
TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: IV

RUN NUMBER: 26





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

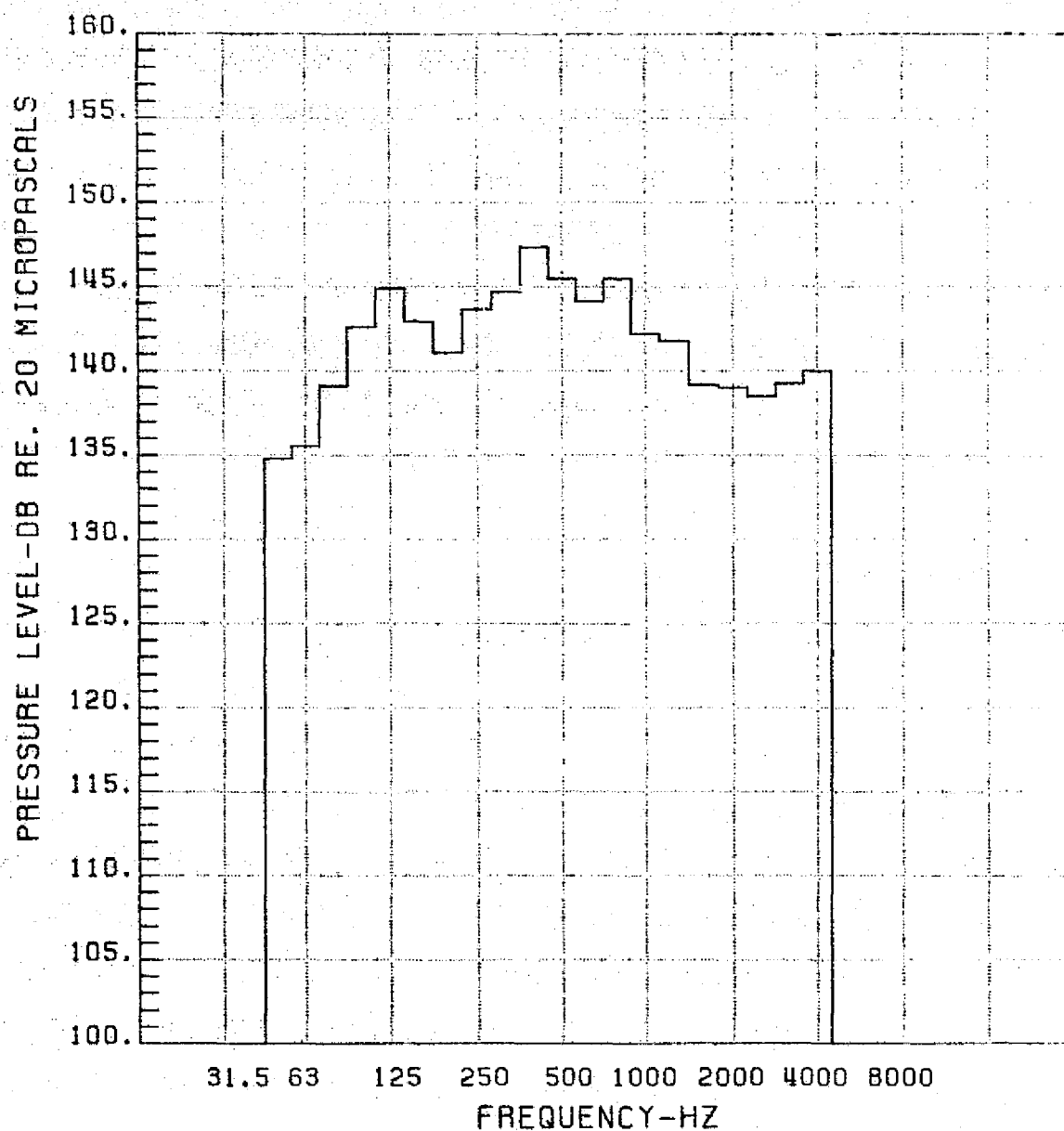
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.3 PSI), COMB EXIT TEMP= 690.8 DEG C (1275. DEG F),  
AIR FLOW= 7.14 KG/SEC (15.7 \*/SEC), FUEL FLOW= 316. KG/HR (696. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: IV

RUN NUMBER: 26



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS

INLET PRESS= 554. KPA (80.3 PSIA), COMB EXIT TEMP= 690.8 DEG C (1275. DEG F),

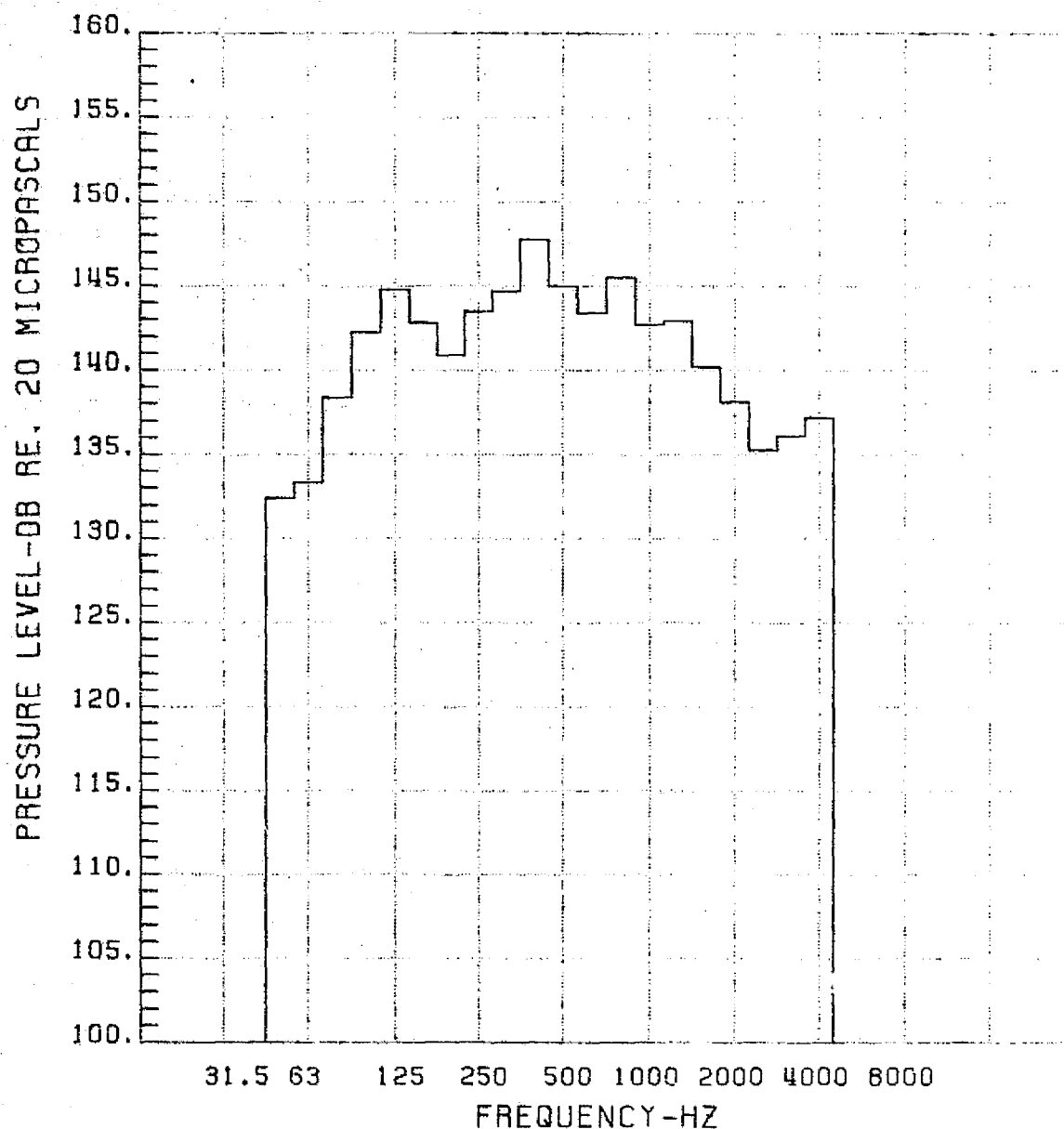
AIR FLOW= 7.14 KG/SEC (15.7 #/SEC), FUEL FLOW= 316. KG/HR (696. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

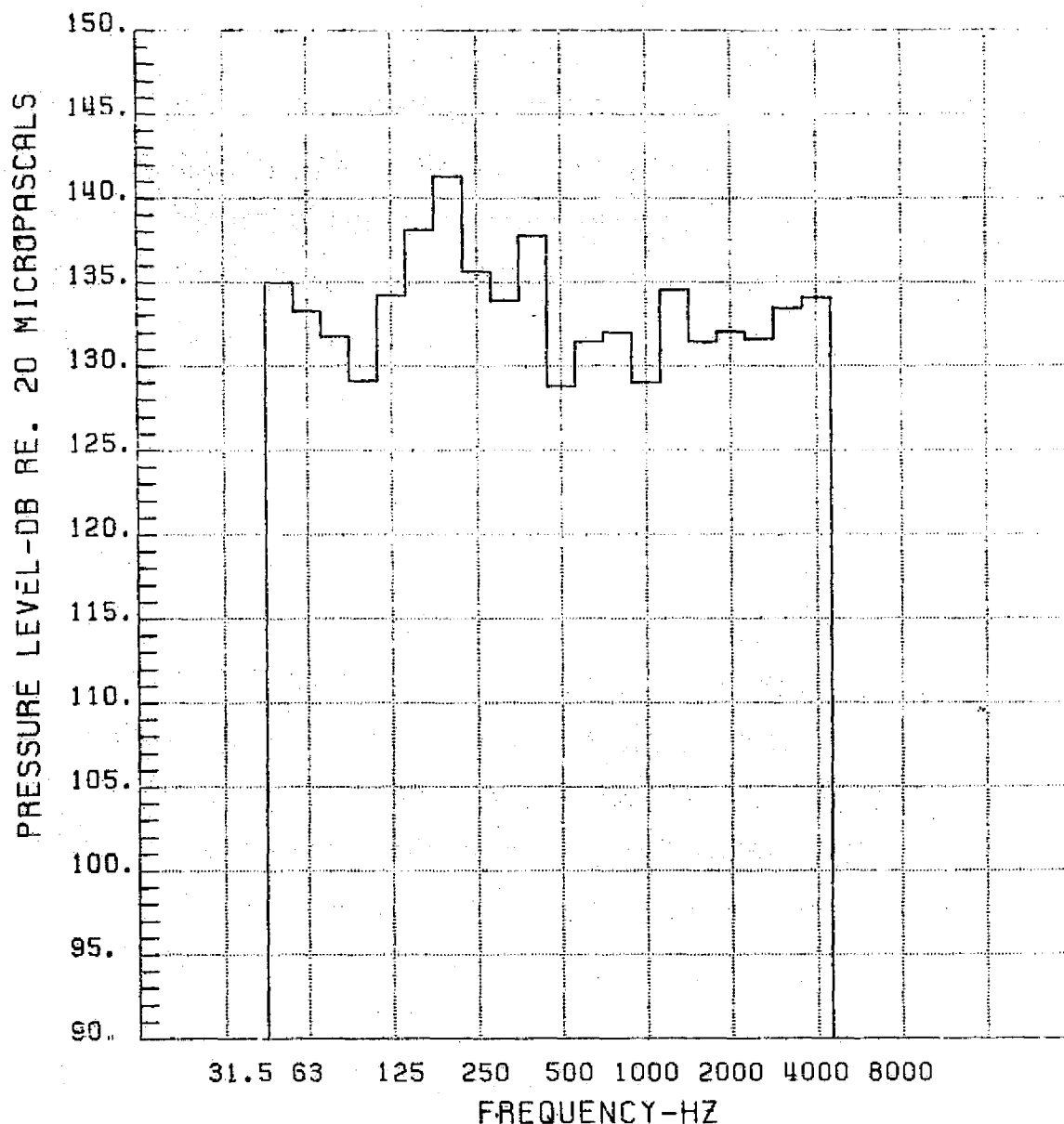
GROUP: IV

RUN NUMBER: 26



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.9 PSIA); COMB EXIT TEMP=690.8 DEG C (1275. DEG F),  
AIR FLOW= 7.14 KG/SEC (15.7 #/SEC), FUEL FLOW= 316. KG/HR (696. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: IV RUN NUMBER: 26



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

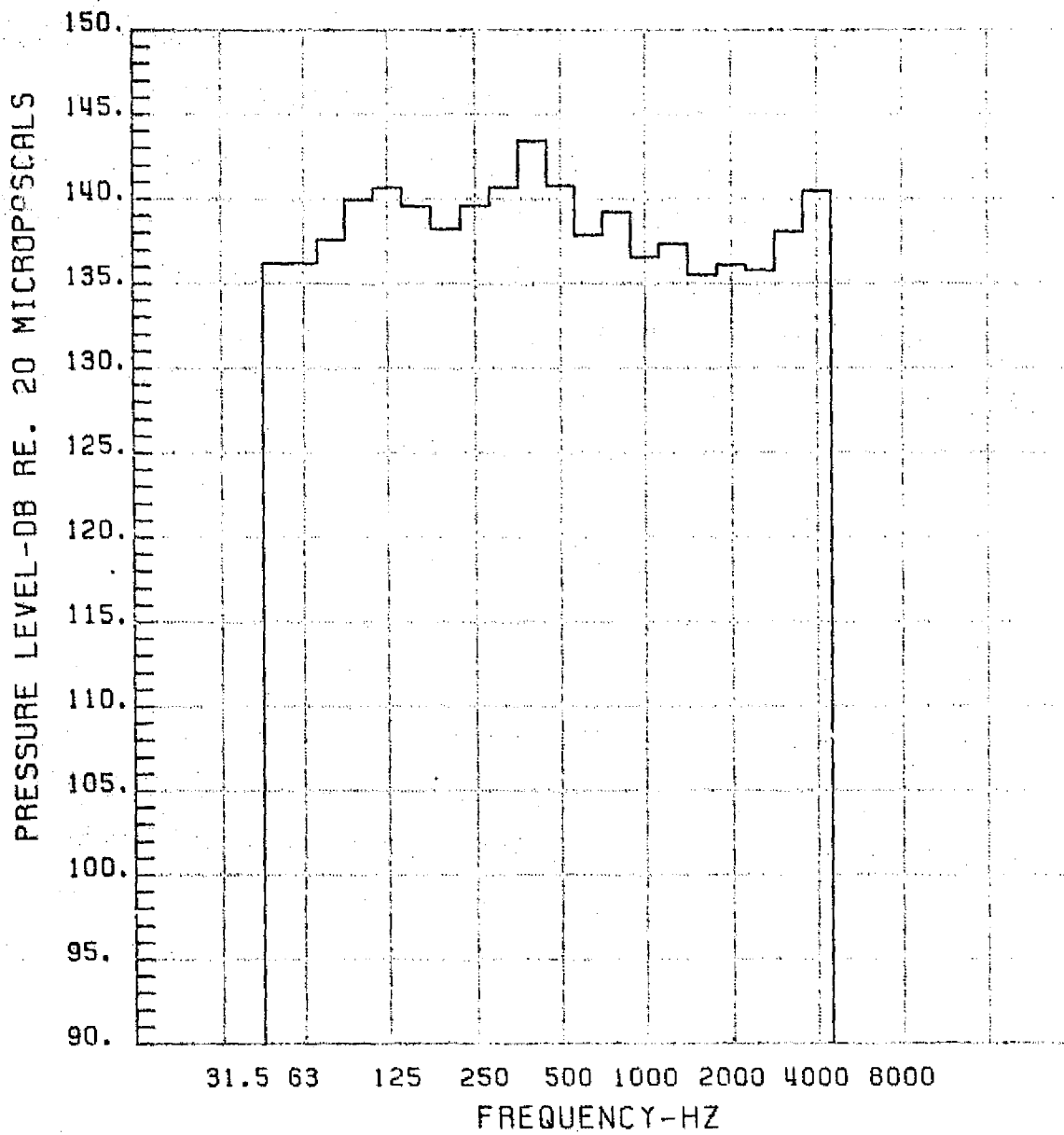
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 554. KPA (80.3 PSIA), COMB EXIT TEMP= 690.8 DEG C (1275. DEG F),  
AIR FLOW= 7.14 KG/SEC (15.7 \*/SEC), FUEL FLOW= 316. KG/HR (696. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: IV

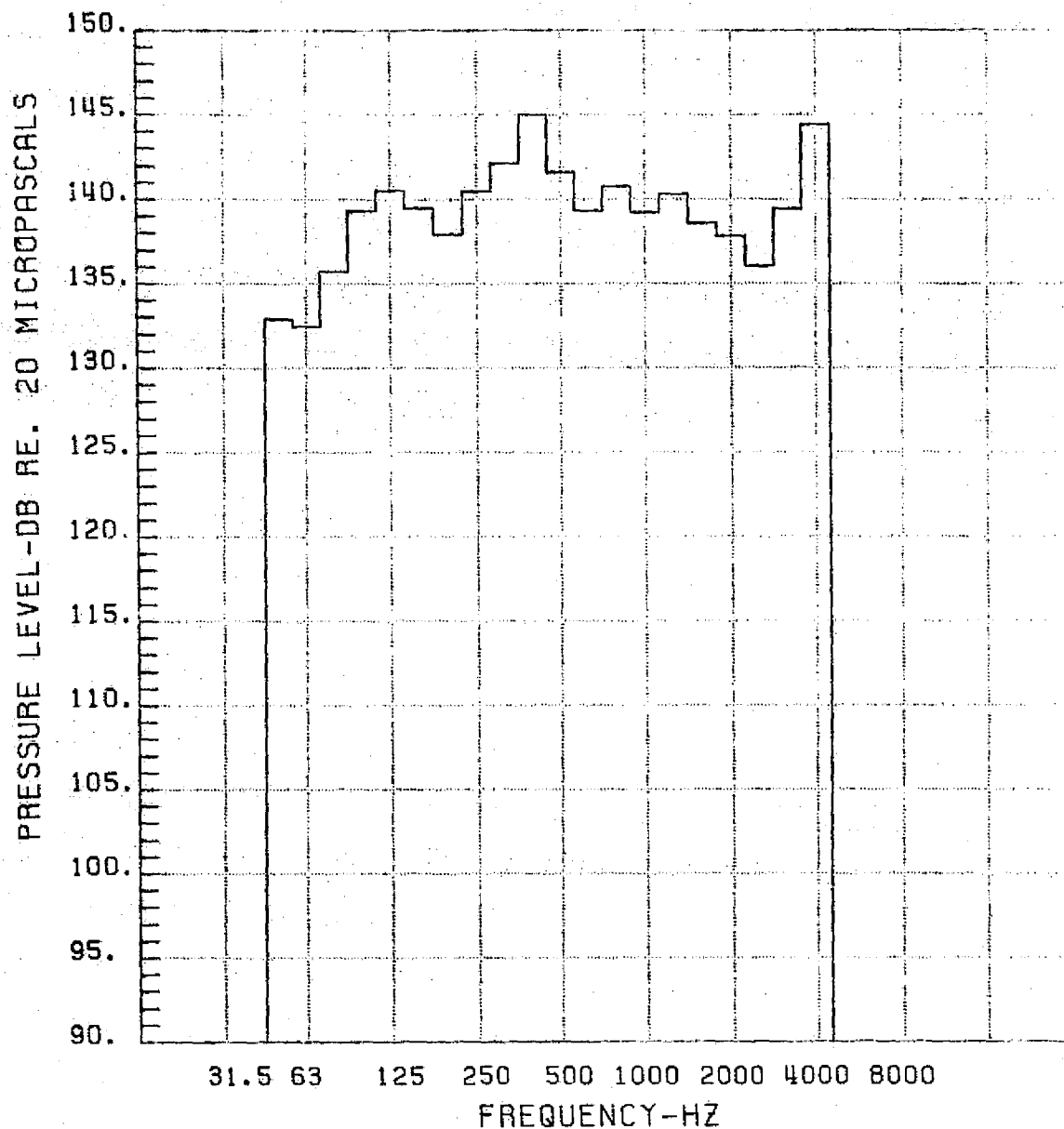
RUN NUMBER: 26



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

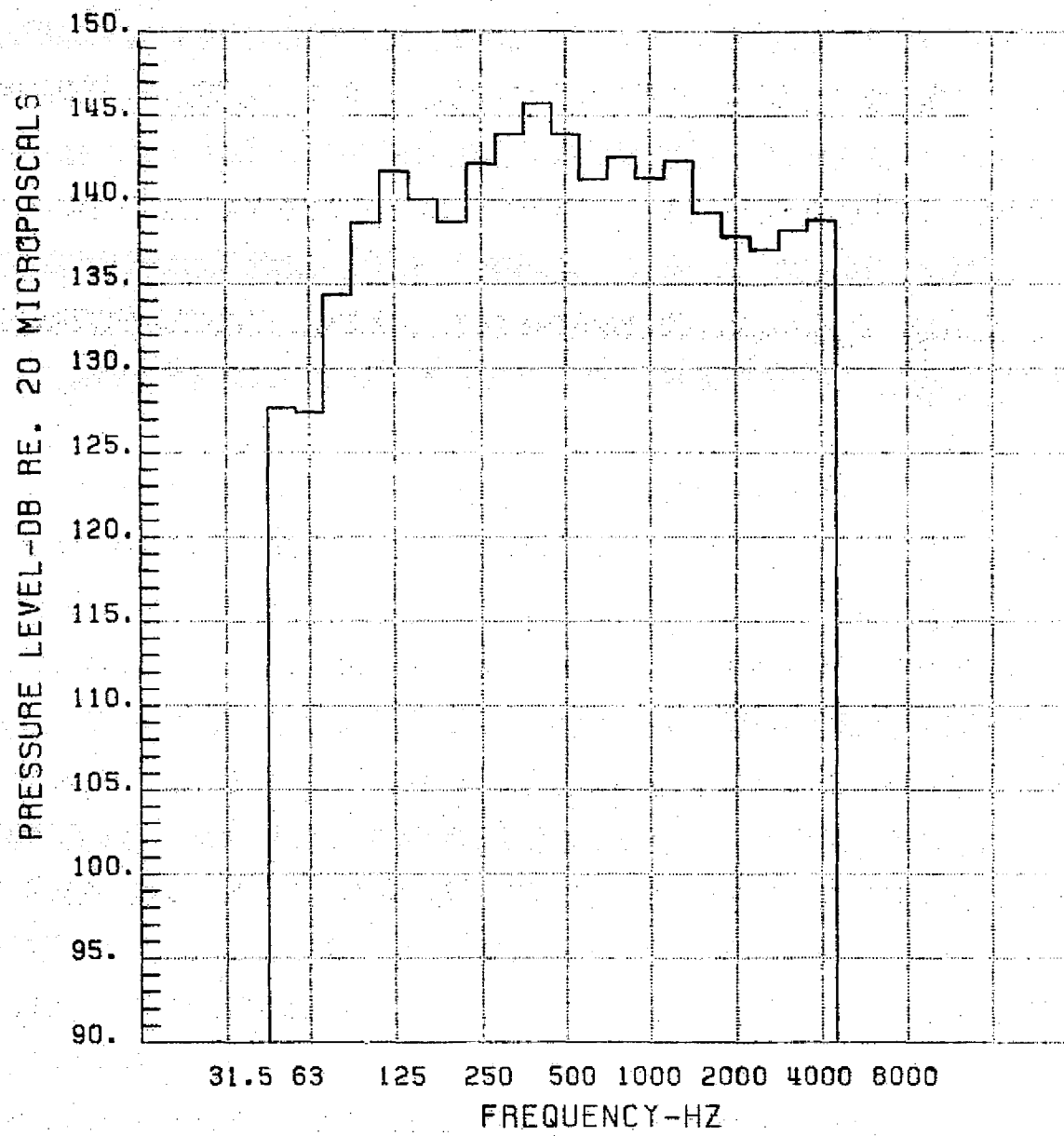
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 555. KPA (80.6 PSIA), COMB EXIT TEMP=687.1 DEG C (1269. DEG F),  
AIR FLOW=8.42 KG/SEC (18.6 #/SEC), FUEL FLOW= 369. KG/HR (814. #/HR)  
TEST DATE: 4/19-21/77

PROBE NUMBER: 1. GROUP: IV RUN NUMBER: 27



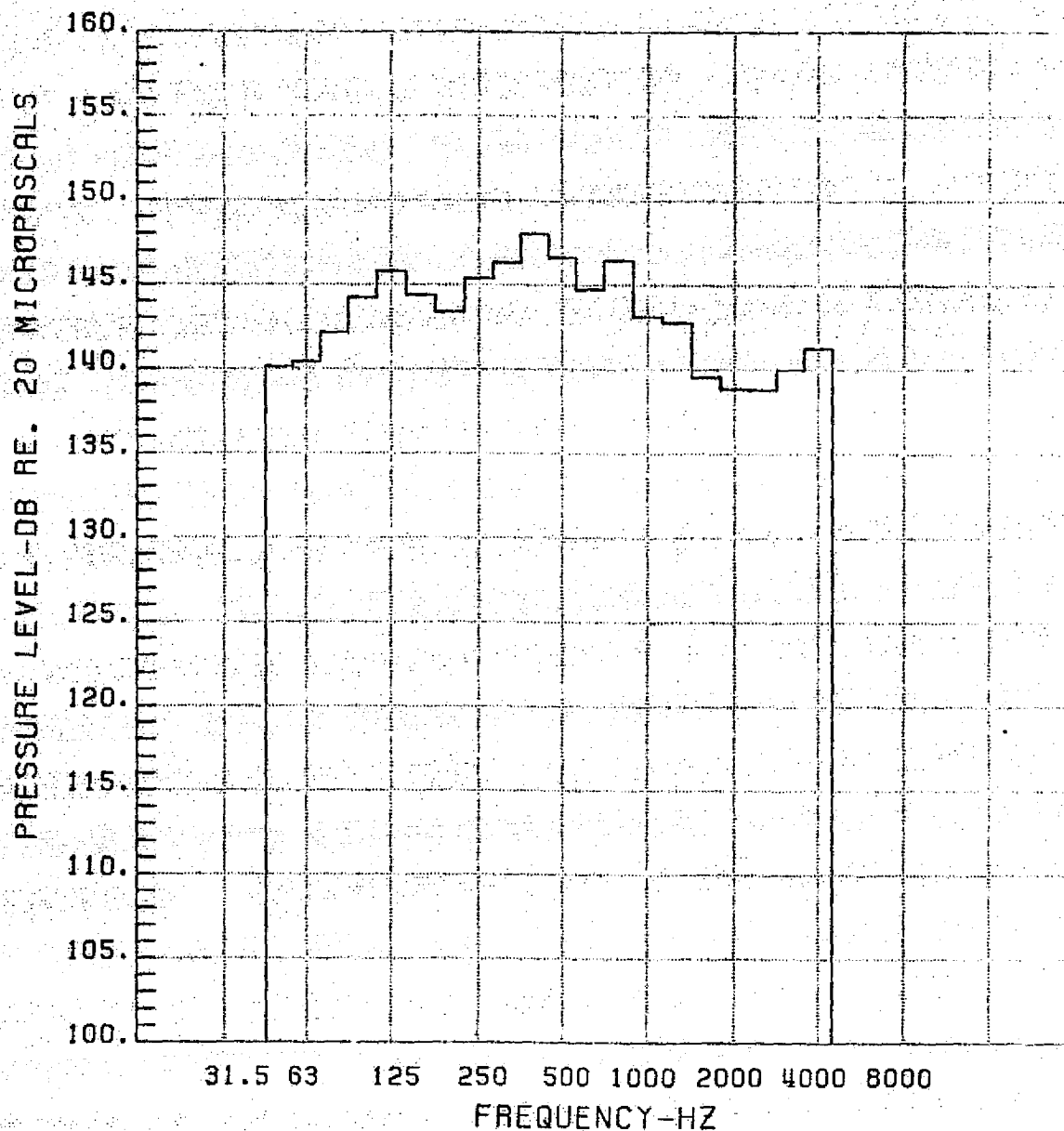
AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 555. KPA (80.6 PSIA), COMB EXIT TEMP= 687.1 DEG C (1269. DEG F),  
AIR FLOW= 8.42 KG/SEC (18.6 \*/SEC), FUEL FLOW= 369. KG/HR (814. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 2. GROUP: IV RUN NUMBER: 27



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

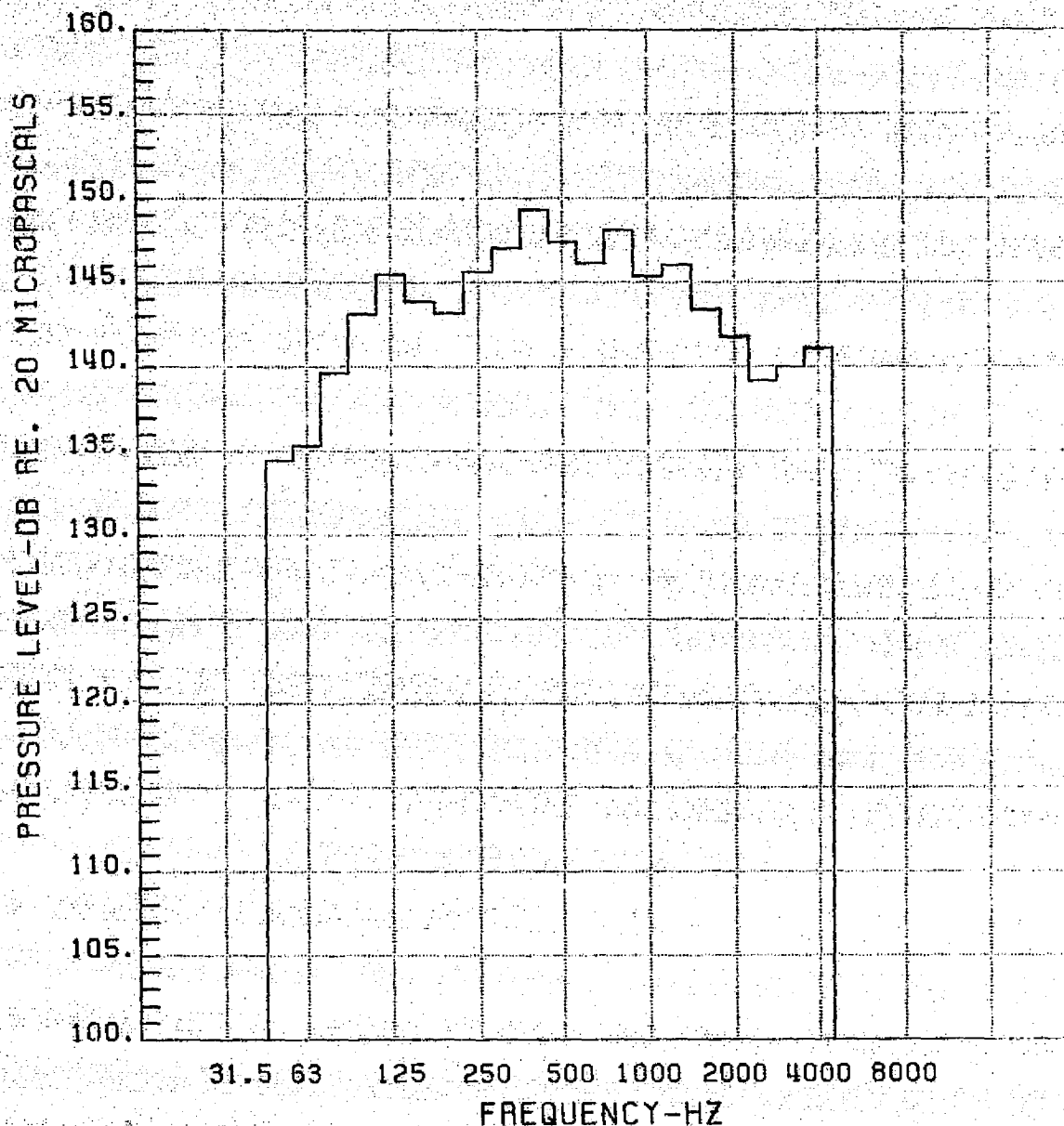
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 555. KPA (80.6 PSIA), COMB EXIT TEMP= 687.1 DEG C (1269. DEG F).  
AIR FLOW= 8.42 KG/SEC (18.6 #/SEC), FUEL FLOW= 369. KG/HR (814. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 3. GROUP: IV RUN NUMBER: 27



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

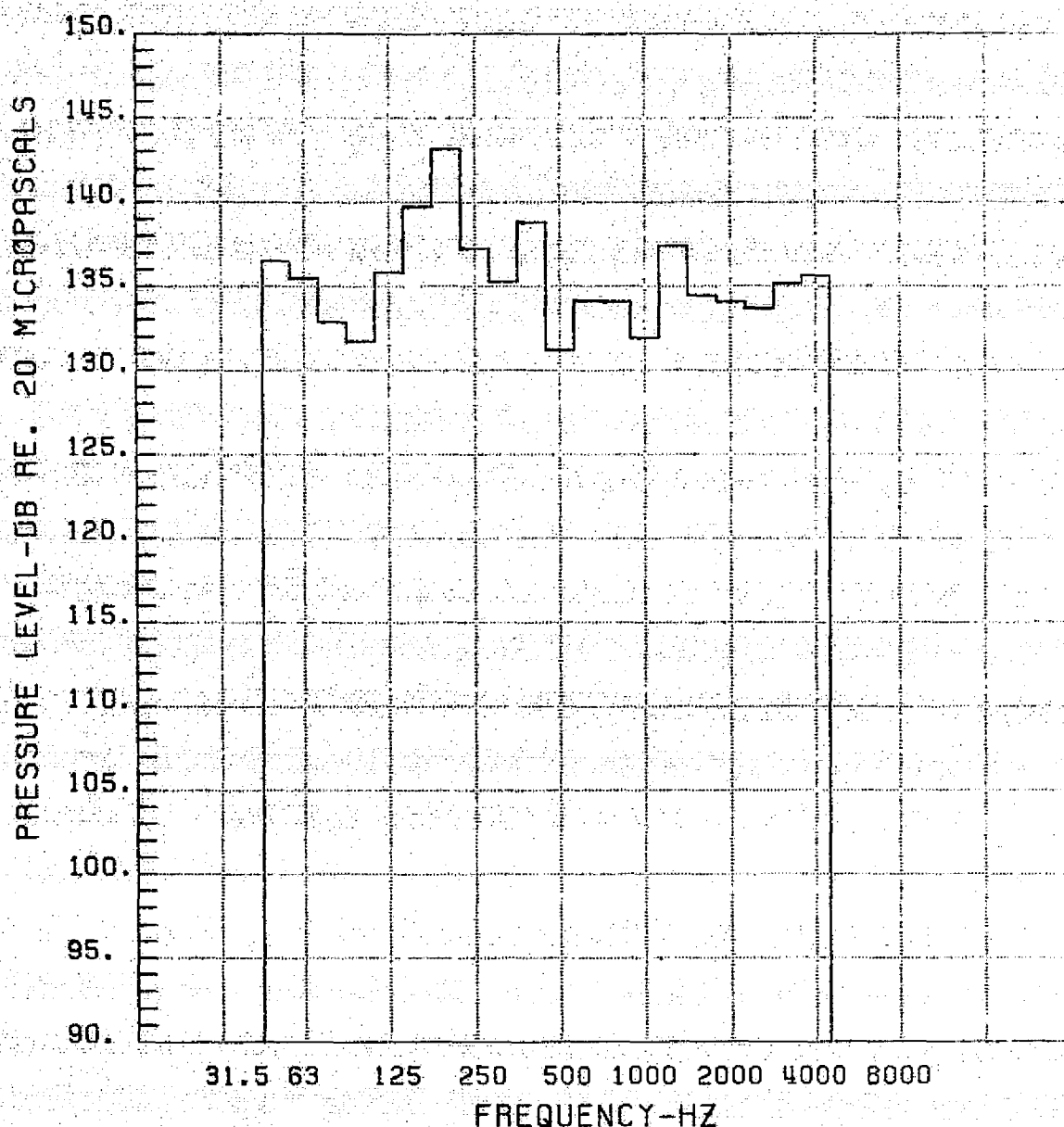
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 555. KPA (80.6 PSIA), COMB EXIT TEMP=687.1 DEG C (1269. DEG F),  
AIR FLOW=8.42 KG/SEC (18.6 #/SEC), FUEL FLOW= 369. KG/HR (814. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: IV RUN NUMBER: 27





**AVCO-LYCOMING DIVISION**  
 550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

**TITLE:** OFF DESIGN AIR FLOW OPERATING POINTS  
**INLET PRESS=** 555. KPA (80.6 PSIA), **COMB EXIT TEMP=** 687.1 DEG C (1269. DEG F),  
**AIR FLOW=** 8.42 KG/SEC (18.6 \*/SEC), **FUEL FLOW=** 369. KG/HR (814. \*/HR)  
**TEST DATE:** 4/19-21/77  
**PROBE NUMBER:** 5. **GROUP:** IV **RUN NUMBER:** 27



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

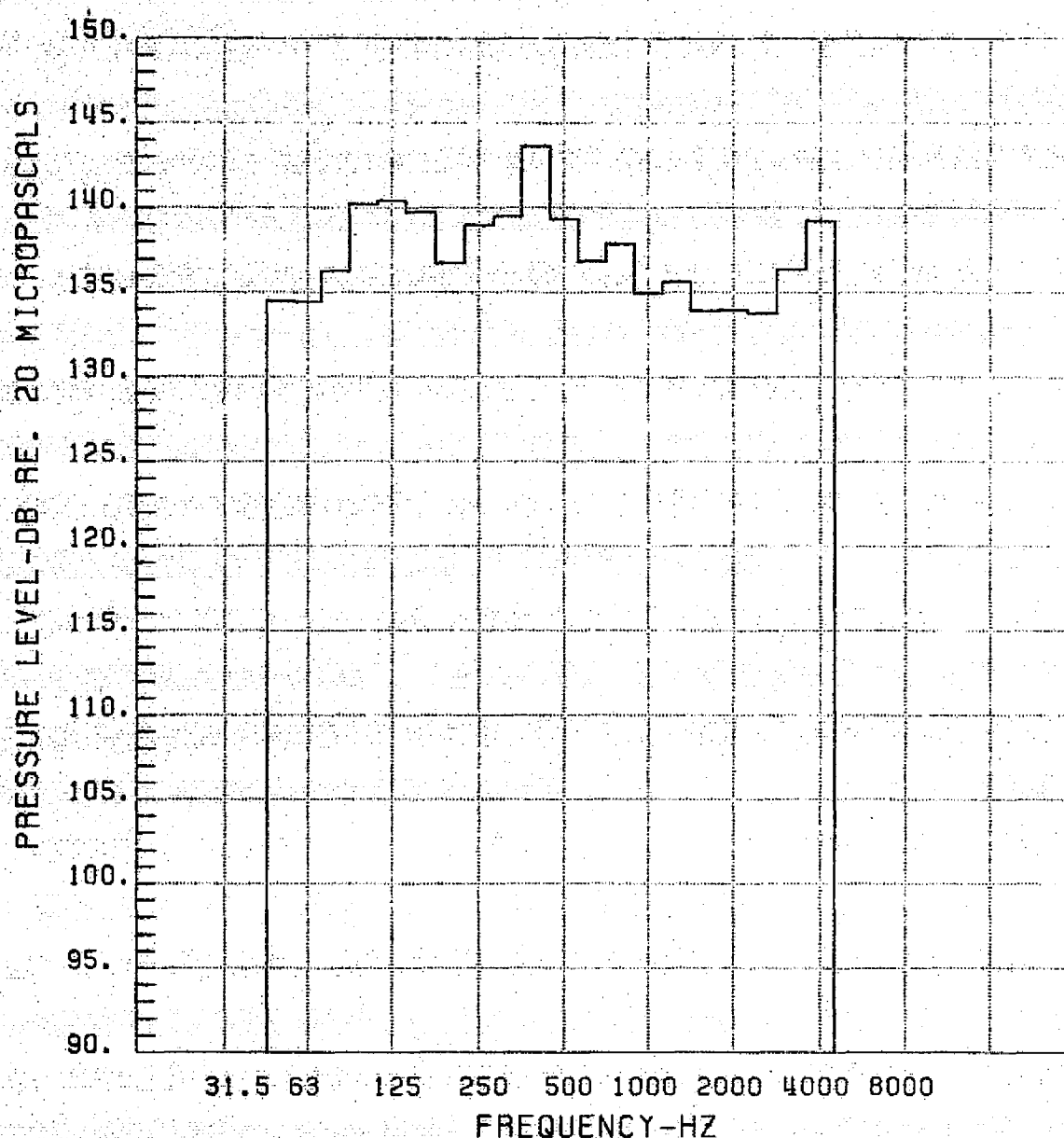
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 555. KPA (80.6 PSIA), COMB EXIT TEMP= 687.1 DEG C (1269. DEG F),  
AIR FLOW= 8.42 KG/SEC (18.6 #/SEC), FUEL FLOW= 369. KG/HR (814. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: IV

RUN NUMBER: 27



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

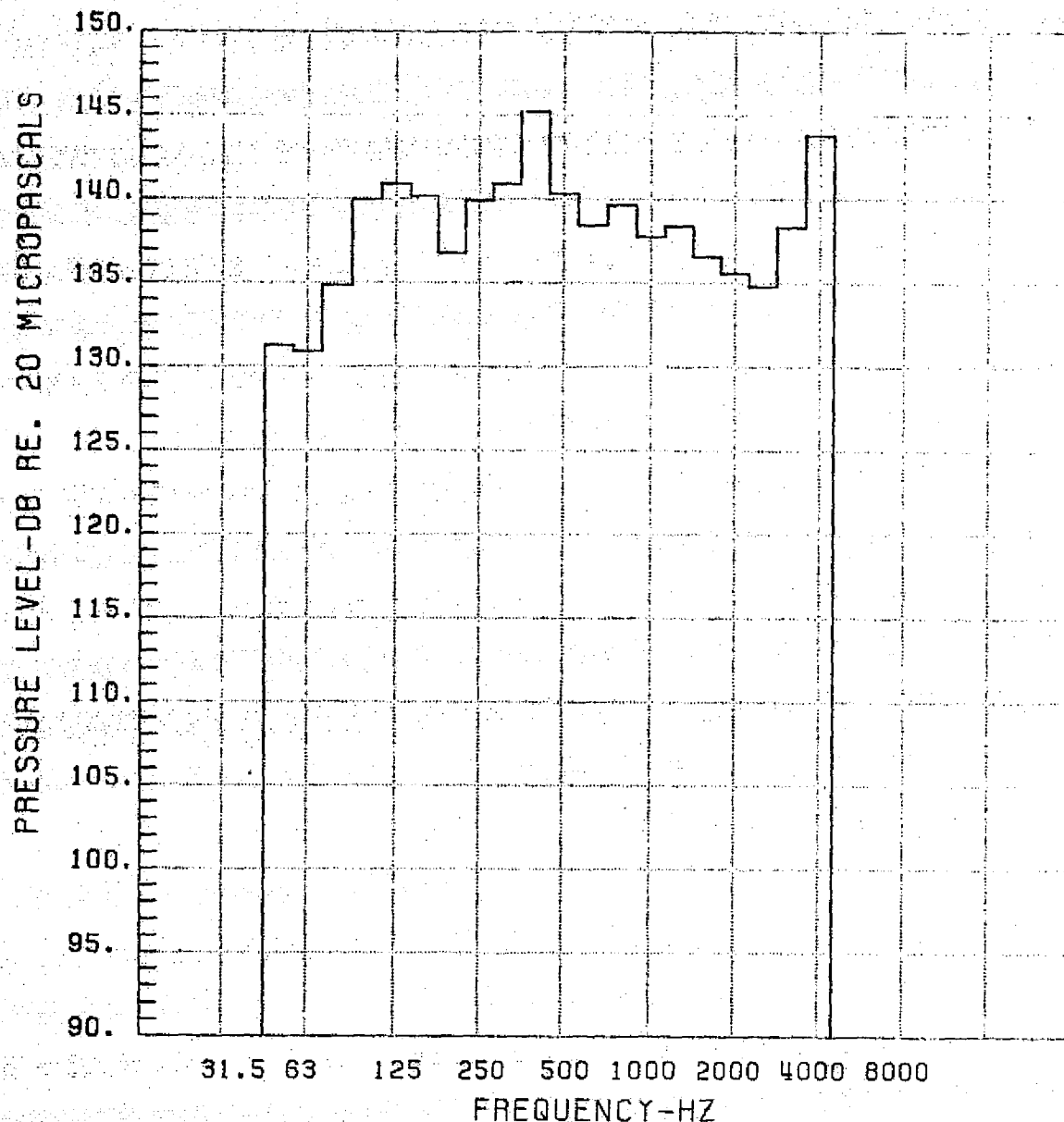
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 623. KPA (90.4 PSIA), COMB EXIT TEMP= 748.4 DEG C (1379. DEG F),  
AIR FLOW= 7.78 KG/SEC (17.2 \*/SEC), FUEL FLOW= 380. KG/HR (837. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: IV

RUN NUMBER: 25



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

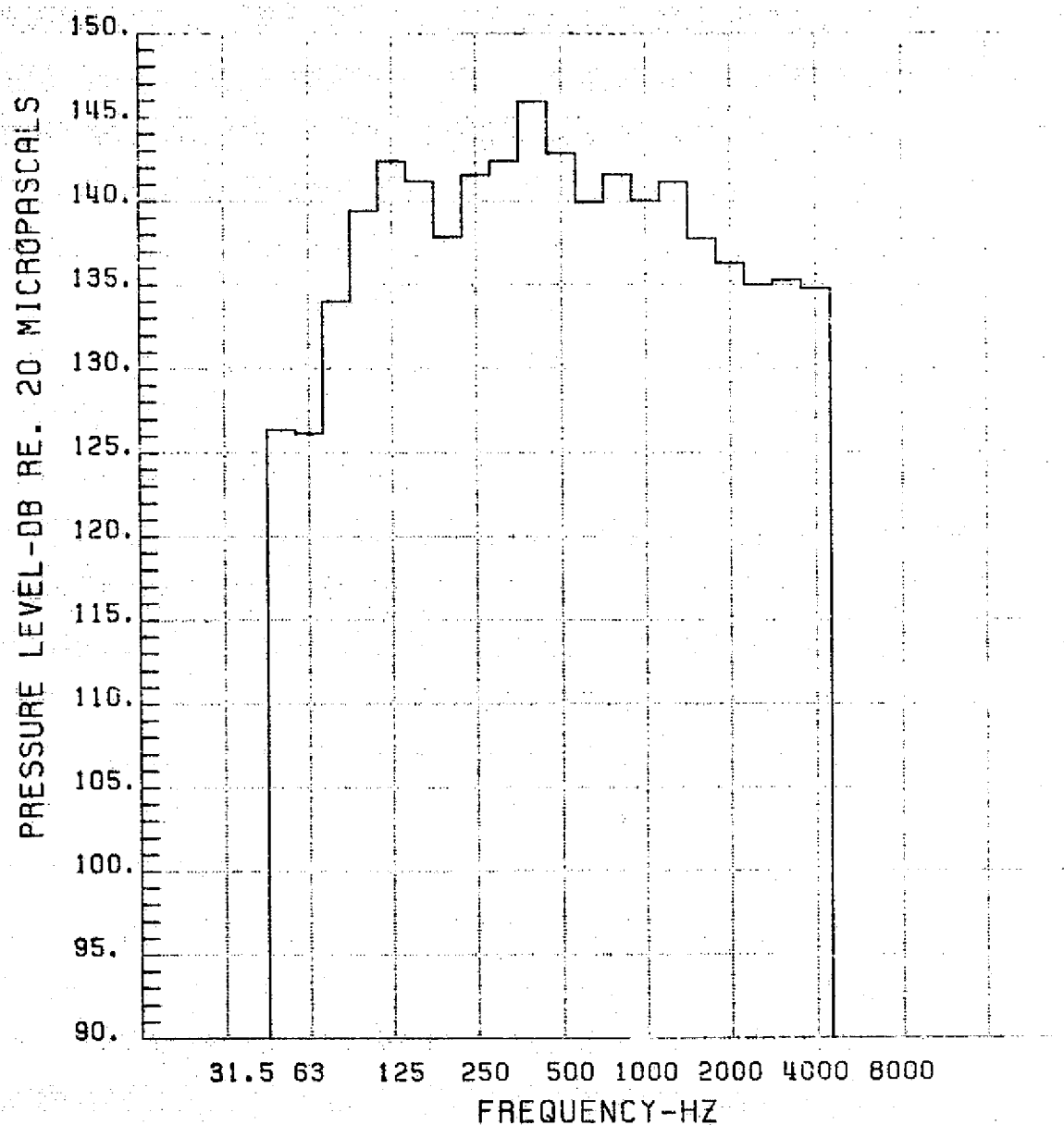
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 623. KPA (90.4 PSIA), COMB EXIT TEMP= 748.4 DEG C (1379. DEG F),  
AIR FLOW= 7.78 KG/SEC (17.2 #/SEC), FUEL FLOW= 380. KG/HR (837. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: IV

RUN NUMBER: 25



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

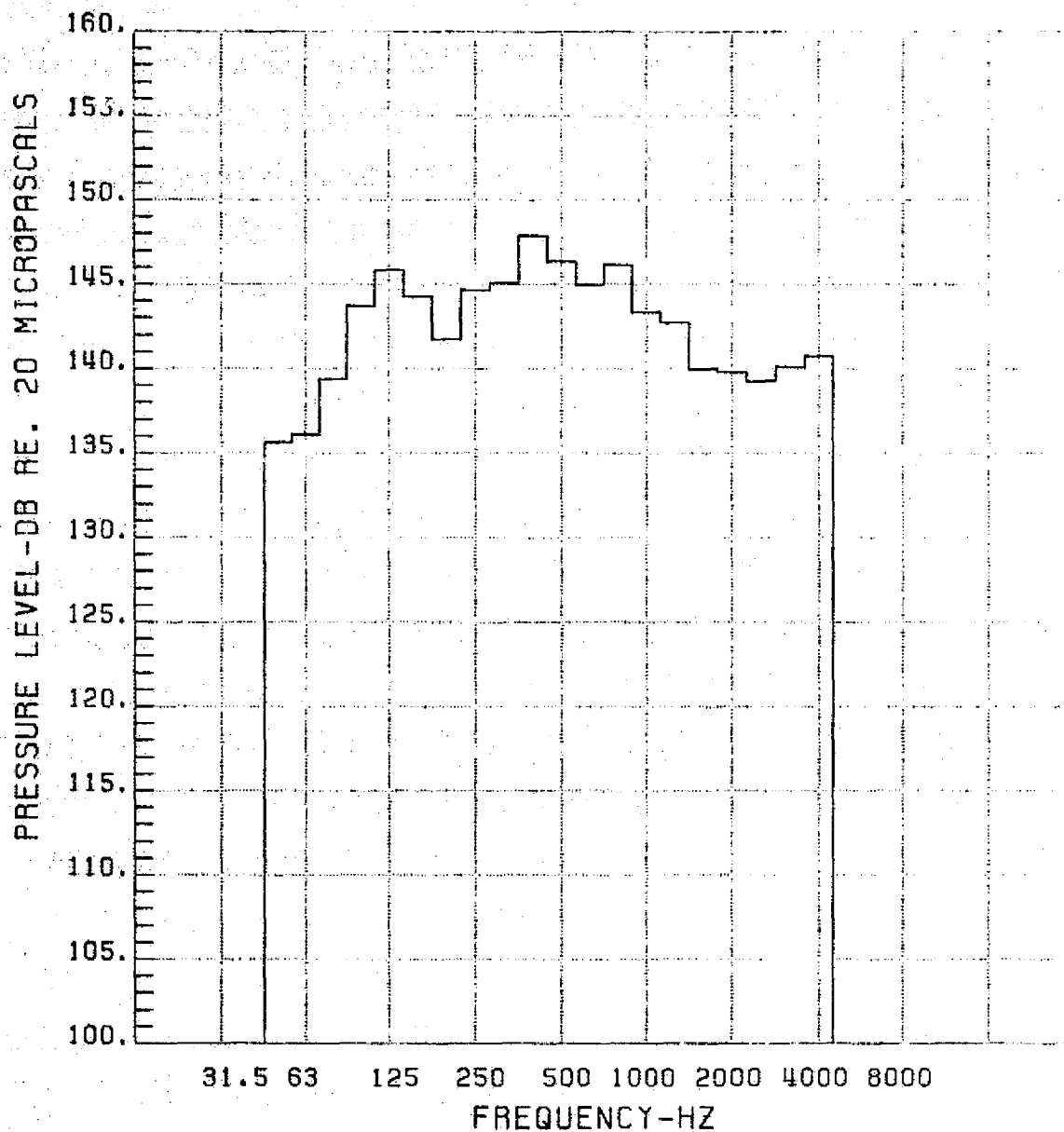
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 623. KPA (90.4 PSIA), COMB EXIT TEMP= 748.4 DEG C (1379. DEG F),  
AIR FLOW= 7.78 KG/SEC (17.2 #/SEC), FUEL FLOW= 380. KG/HR (837. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: IV

RUN NUMBER: 25



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

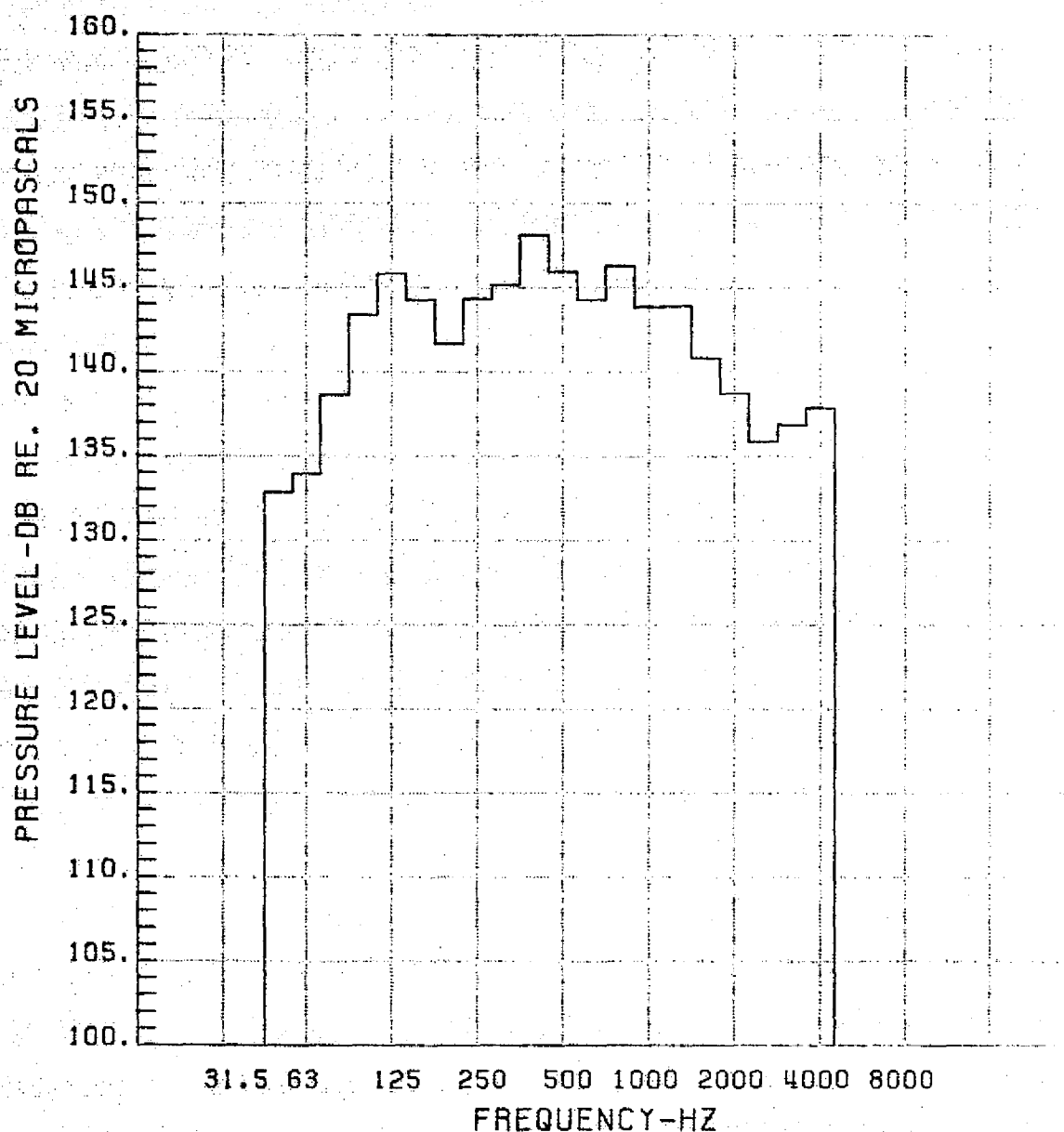
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 623. KPA (90.4 PSIA), COMB EXIT TEMP=748.4 DEG C (1379. DEG F),  
AIR FLOW=7.78 KG/SEC (17.2 \*/SEC), FUEL FLOW= 380. KG/HR (837. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: IV

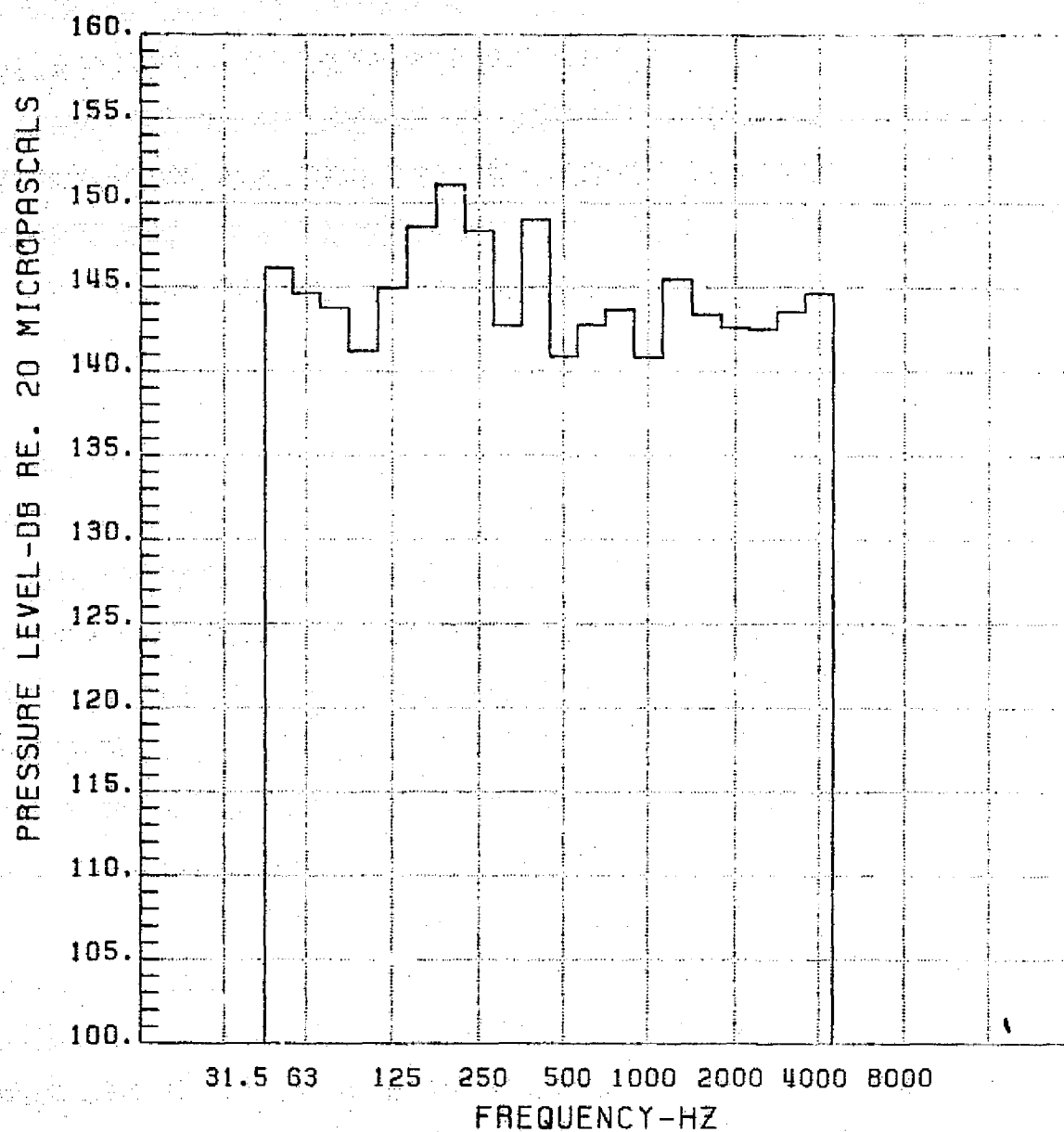
RUN NUMBER: 25



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 823. KPA (90.4 PSIA), COMB EXIT TEMP= 748.4 DEG C (1379. DEG F),  
AIR FLOW= 7.78 KG/SEC (17.2 #/SEC), FUEL FLOW= 380. KG/HR (837. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: 1V RUN NUMBER: 25





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STARTFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 623. KPA (90.4 PSIA), COMB EXIT TEMP= 748.4 DEG C (1379. DEG F),  
AIR FLOW= 7.78 KG/SEC (17.2 #/SEC), FUEL FLOW= 380. KG/HR (837. #/HR)

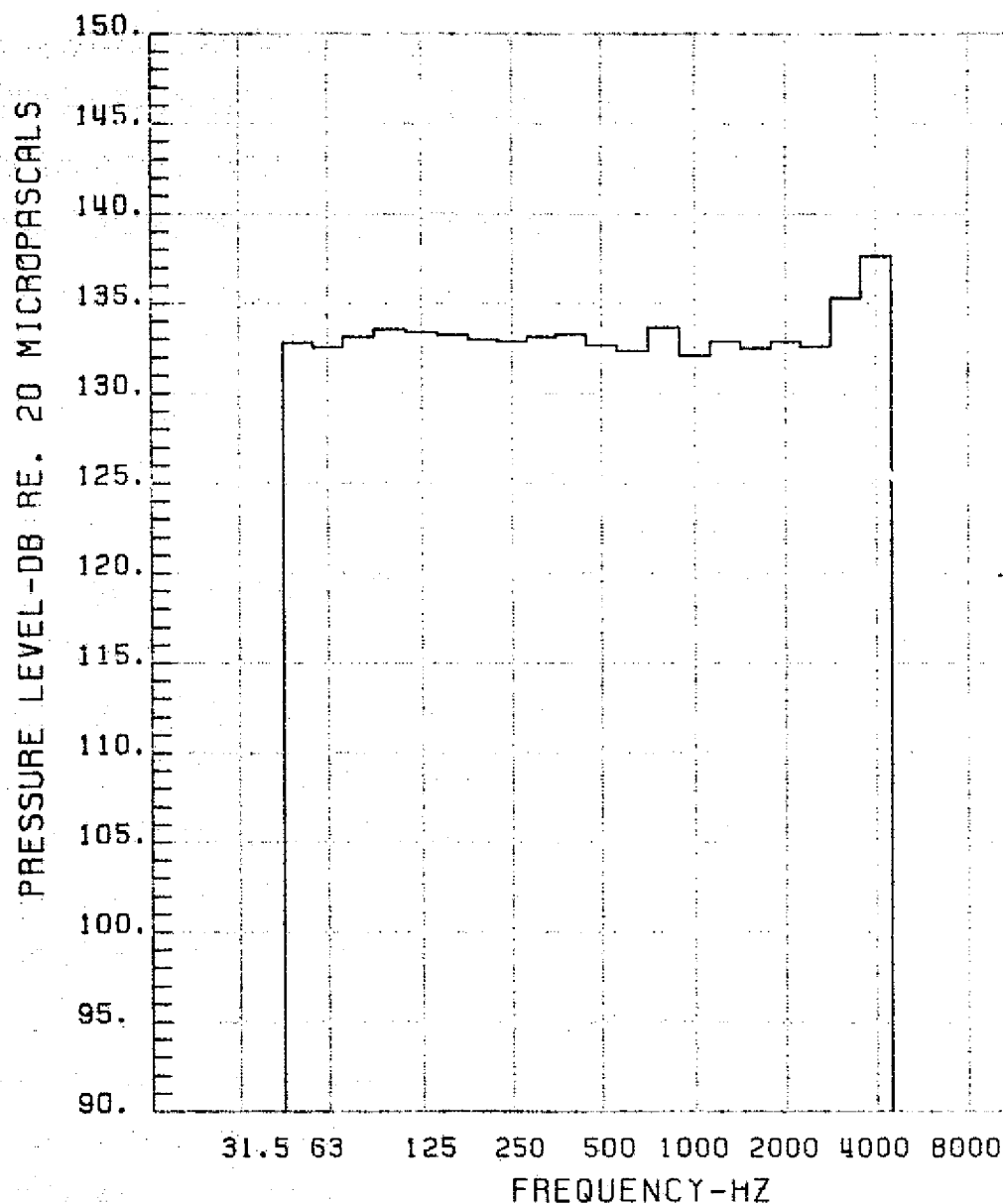
TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: IV

RUN NUMBER: 25





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

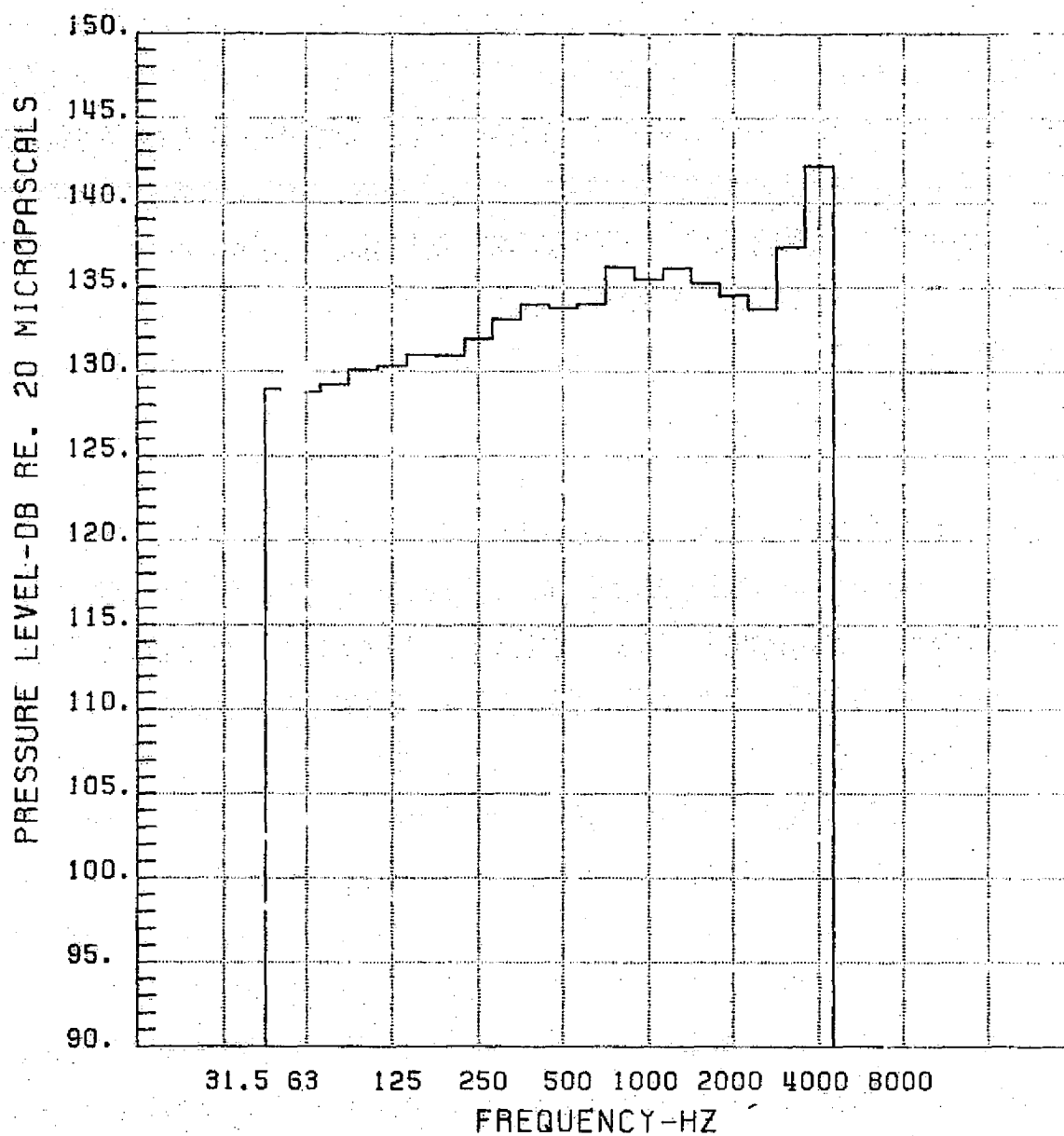
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 622. KPA (90.2 PSIA), COMB EXIT TEMP=245.1 DEG C (473. DEG F),  
AIR FLOW=7.80 KG/SEC (17.2 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: IV

RUN NUMBER: 30



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

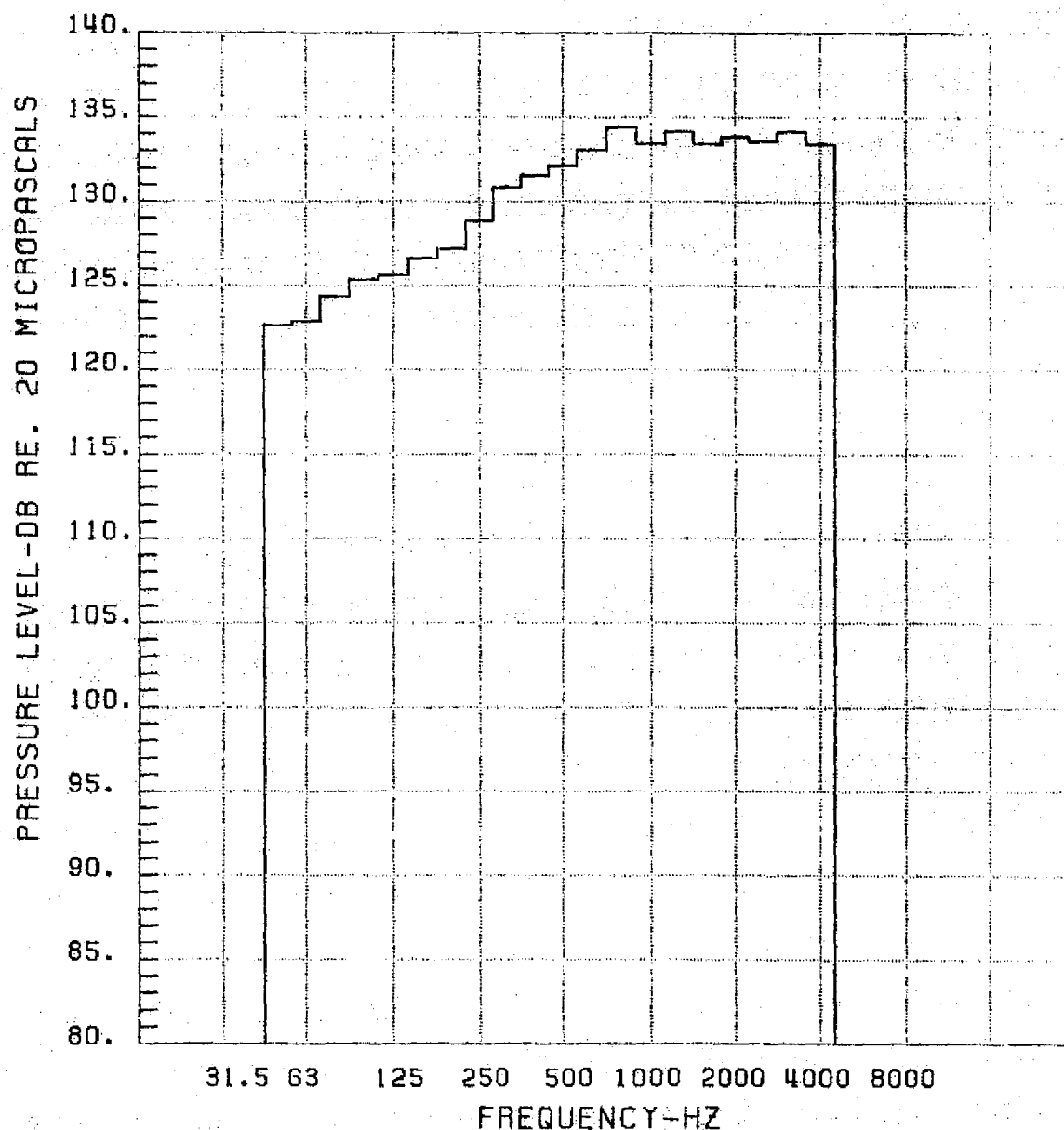
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 622. KPA (90.2 PSIA); COMB EXIT TEMP= 245.1 DEG C (473. DEG F),  
AIR FLOW= 7.80 KG/SEC (17.2 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: IV

RUN NUMBER: 30



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

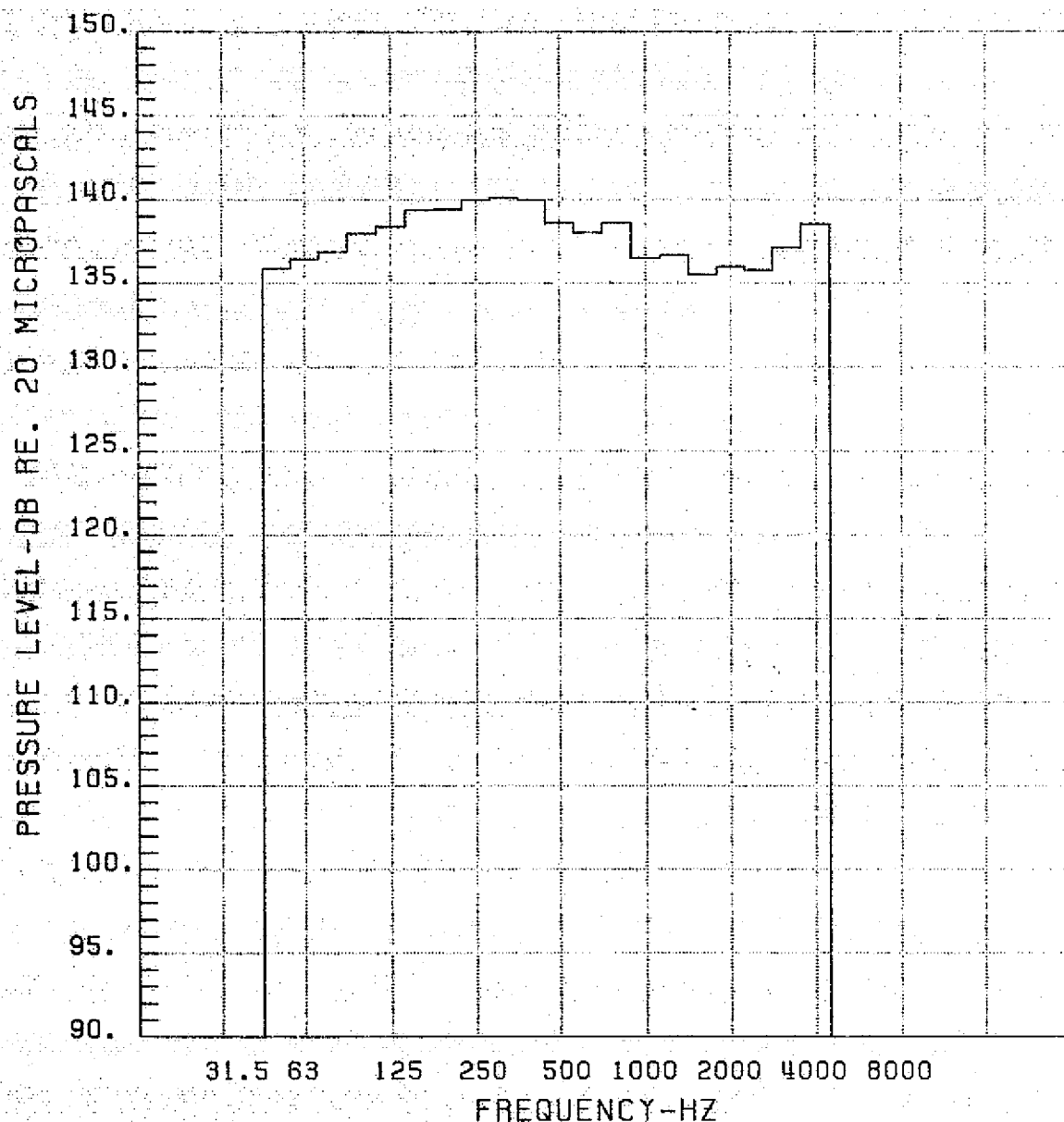
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 622. KPA (90.2 PSIA), COMB EXIT TEMP=245.1 DEG C (473. DEG F).  
AIR FLOW= 7.80 KG/SEC ( 17.2 \*/SEC), FUEL FLOW= 0. KG/HR ( 0. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

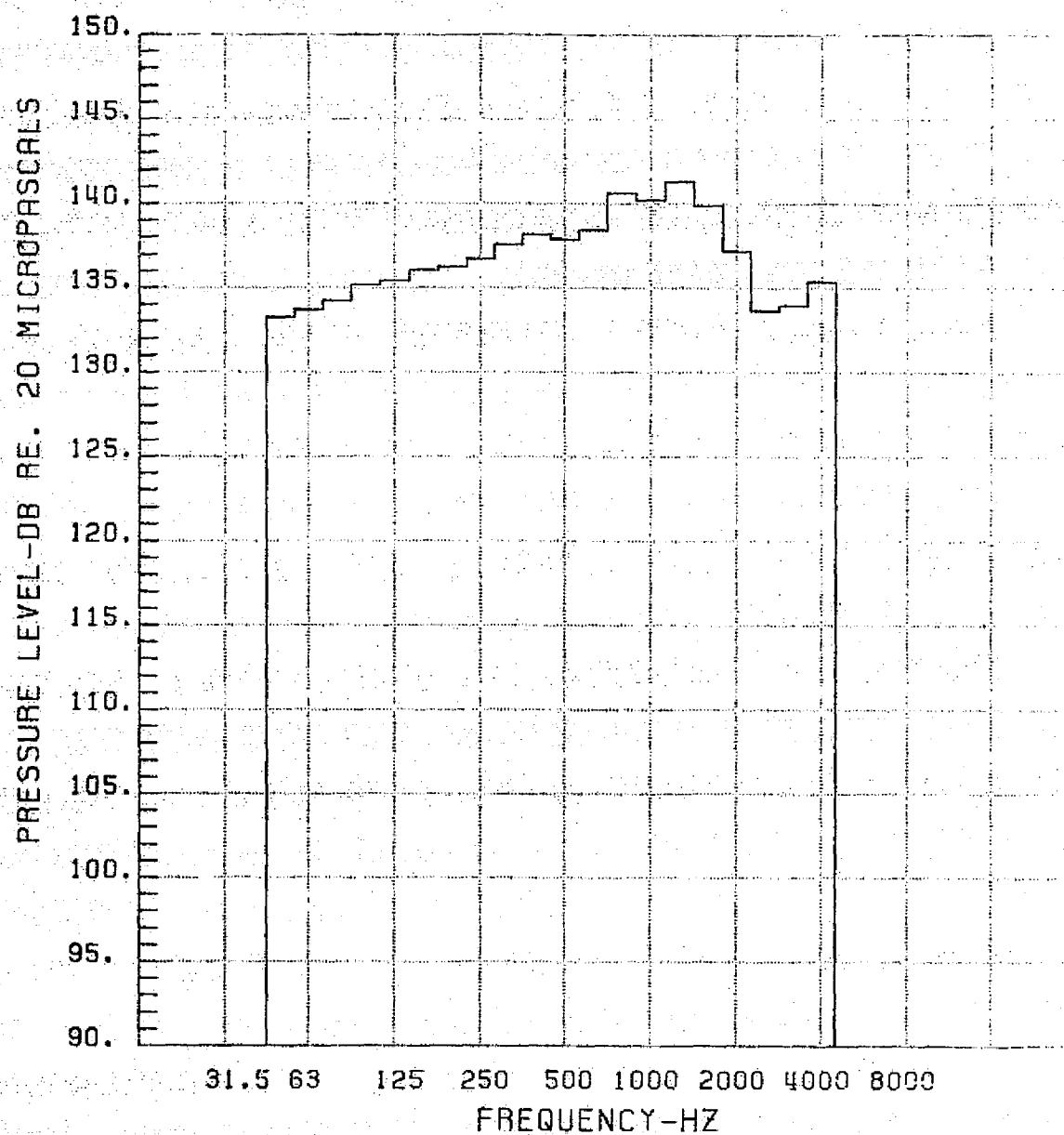
GROUP: IV

RUN NUMBER: 30



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 622. KPA (90.2 PSIA), COMB EXIT TEMP=245.1 DEG C (473. DEG F),  
AIR FLOW= 7.80 KG/SEC (17.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 4. GROUP: IV RUN NUMBER: 30



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAMFORD, CONN. 06497

### ONE THIRD OCTAVE BAND ANALYSIS

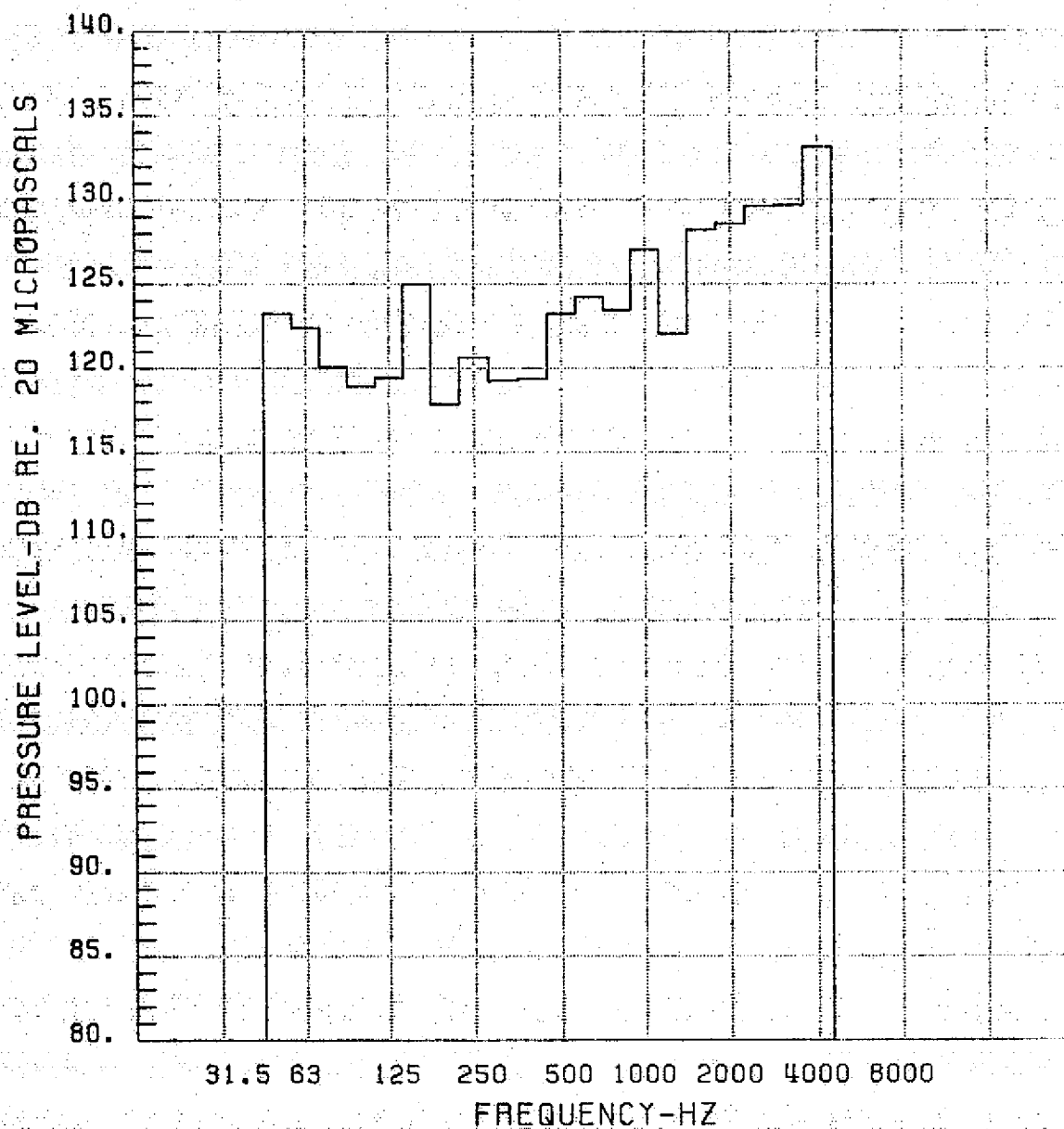
TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 622. KPA (90.2 PSIA), COMB EXIT TEMP=245.1 DEG C (473. DEG F),  
AIR FLOW=7.80 KG/SEC (17.2 \*/SEC), FUEL FLOW= 0. KG/HR (0. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

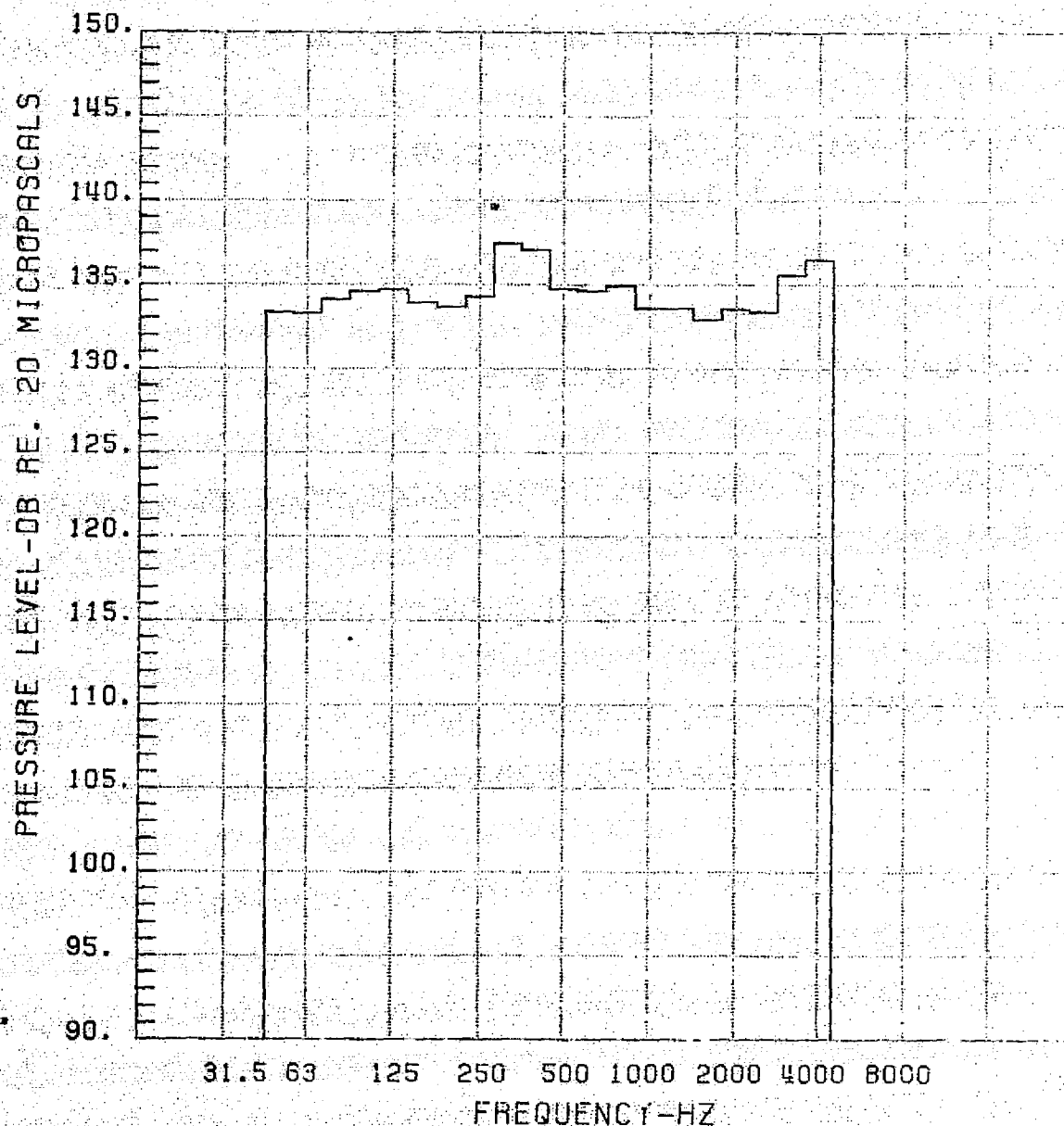
GROUP: IV

RUN NUMBER: 30



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN AIR FLOW OPERATING POINTS  
INLET PRESS= 622. KPA (90.2 PSIA), COMB EXIT TEMP= 245.1 DEG C (473. DEG F),  
AIR FLOW= 7.80 KG/SEC (17.2 #/SEC), FUEL FLOW= 0. KG/HR (0. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 6. GROUP: IV RUN NUMBER: 30



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497

### ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 375. KPA (54.3 PSIA), COMB EXIT TEMP=395.2 DEG C (743. DEG F),  
AIR FLOW=6.41 KG/SEC (14.1 #/SEC), FUEL FLOW=130. KG/HR (287. #/HR)

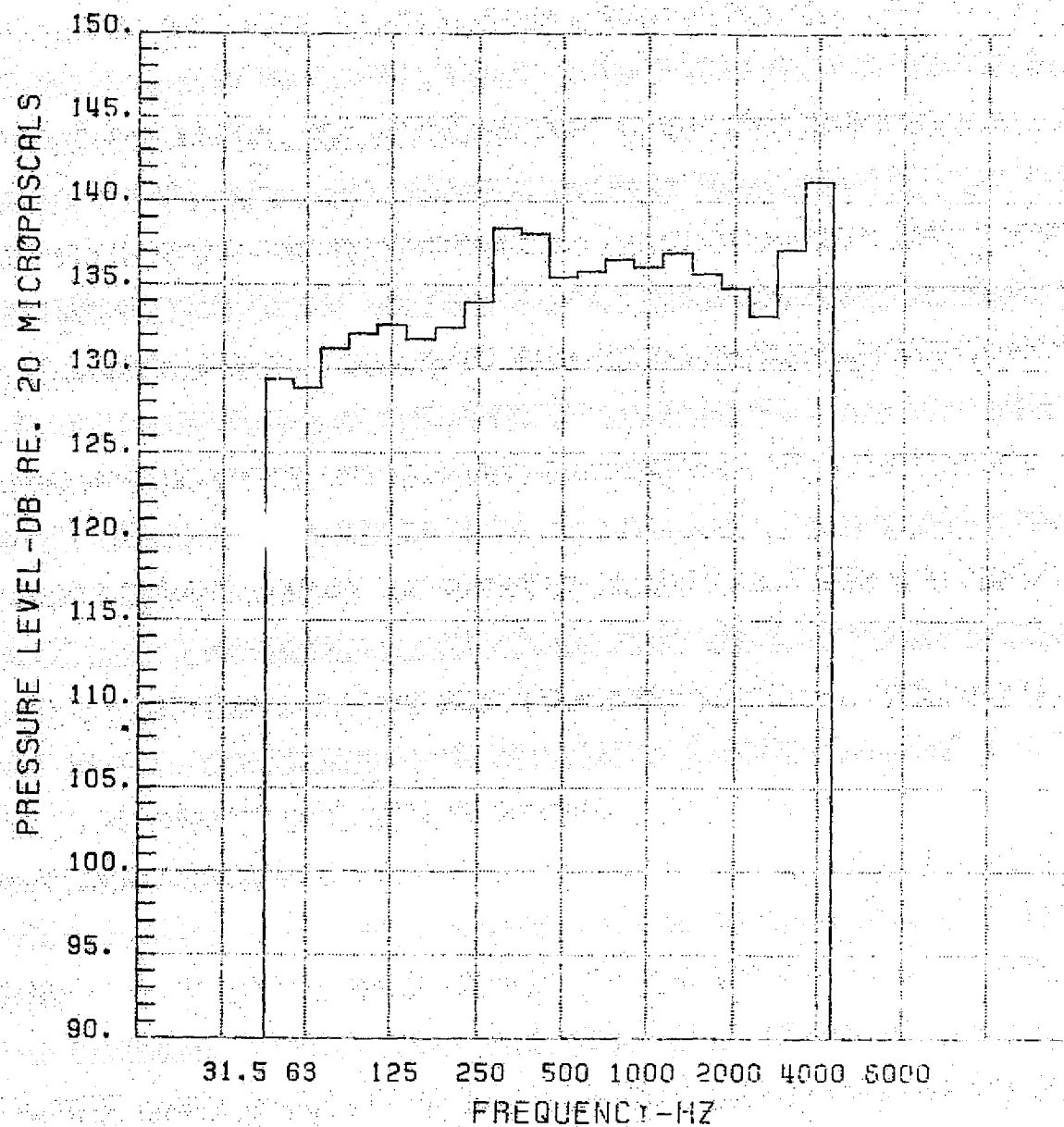
TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: V

RUN NUMBER: 12





AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 375. KPA (54.3 PSIA), COMB EXIT TEMP=395.2 DEG C (743. DEG F),  
AIR FLOW=6.41 KG/SEC (14.1 #/SEC), FUEL FLOW= 130. KG/HR (287. #/HR)

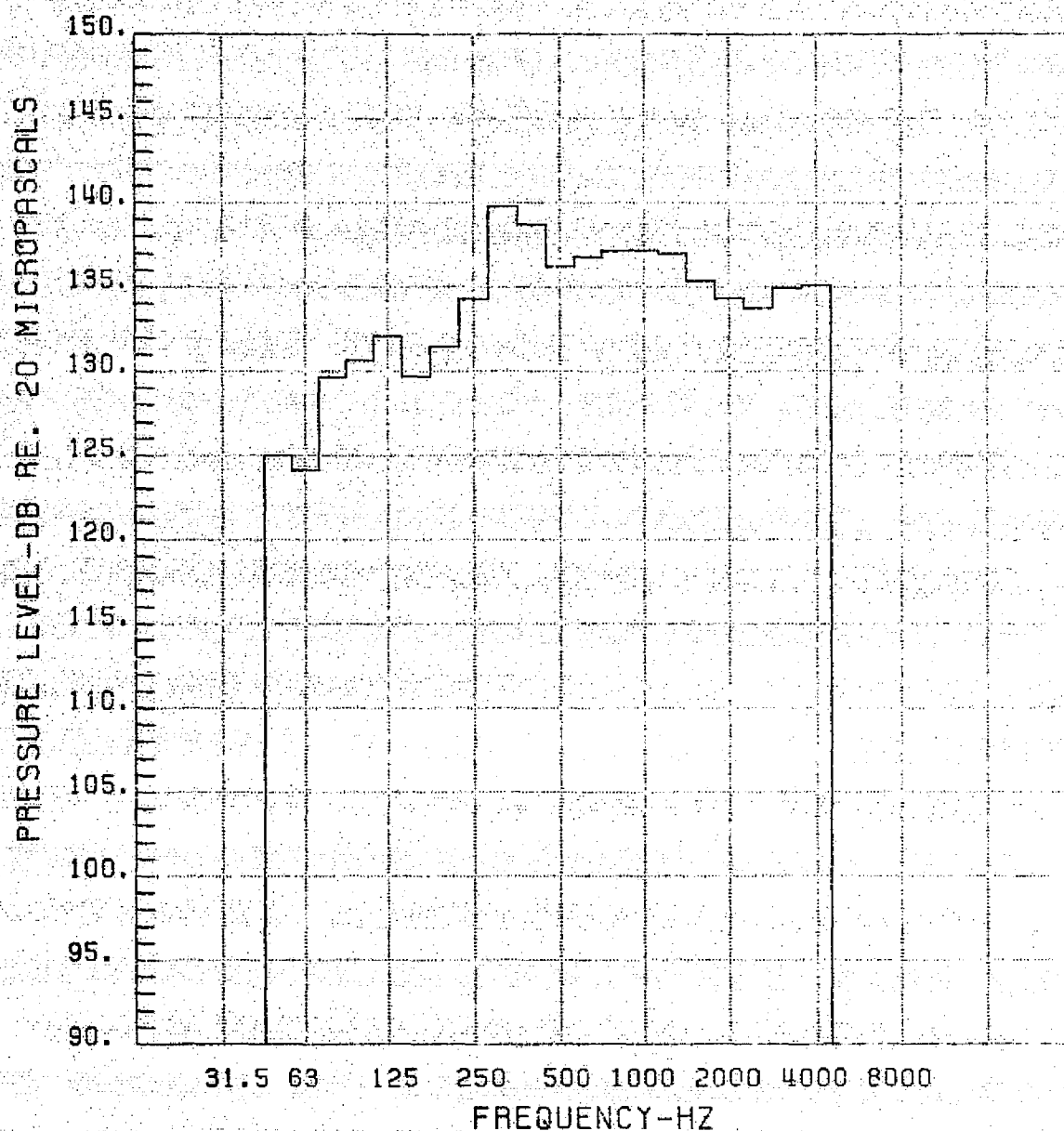
TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: V

RUN NUMBER: 12





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

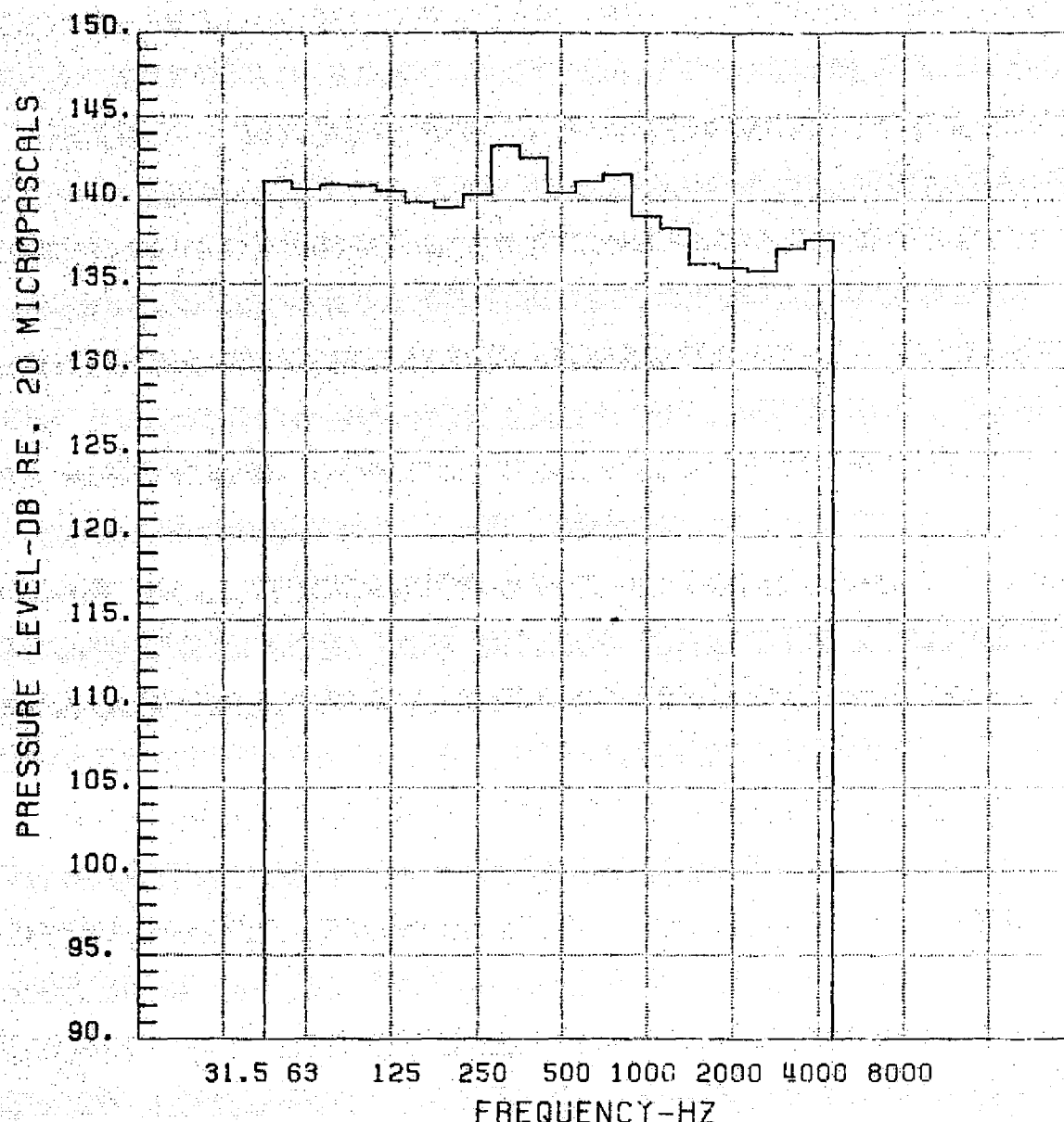
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 375. KPA (54.3PSIA), COMB EXIT TEMP=395.2 DEG C (743. DEG F).  
AIR FLOW=6.41 KG/SEC (14.1 #/SEC), FUEL FLOW= 130. KG/HR (287. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: V

RUN NUMBER: 12



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

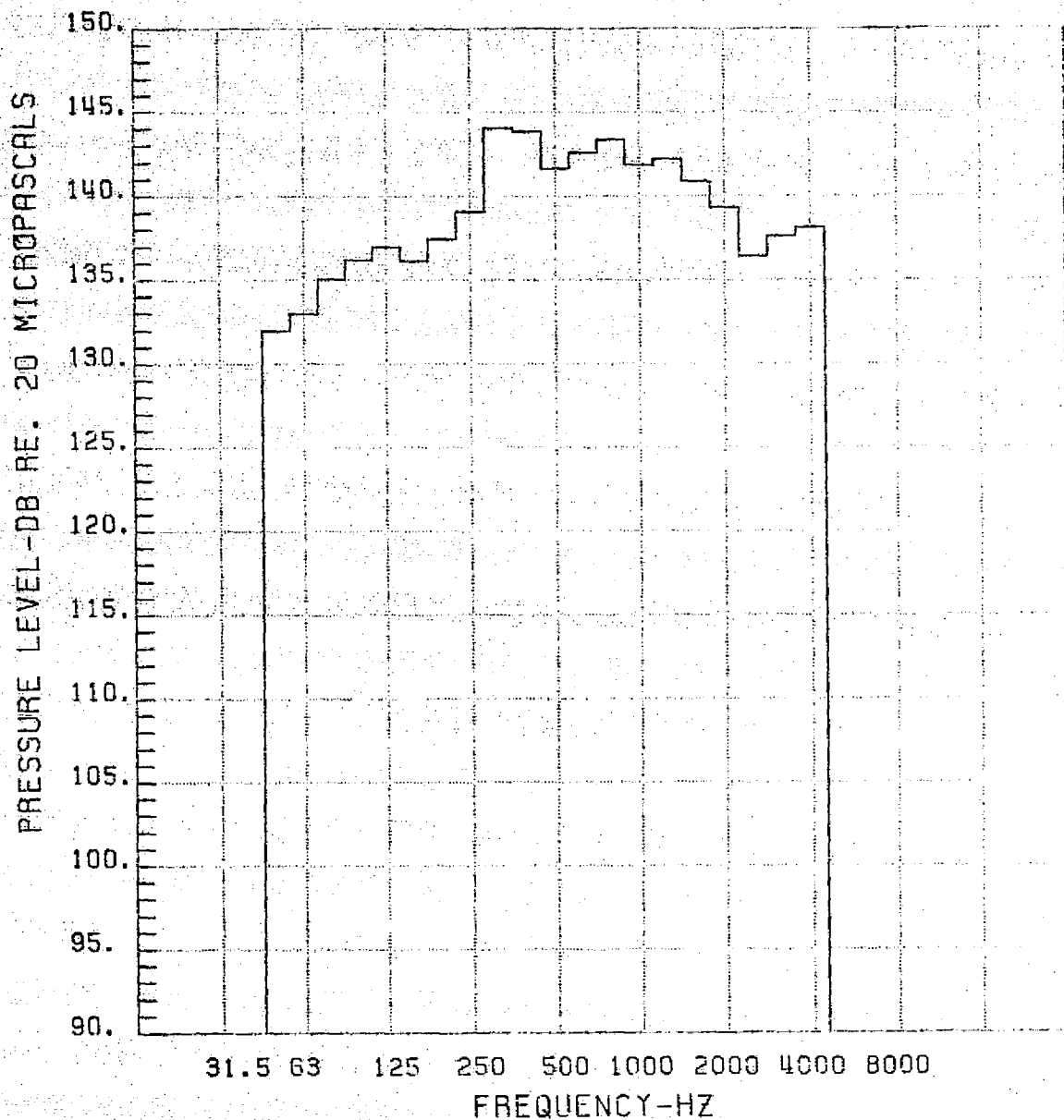
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 375. KPA (54.3 PSIA), COMB EXIT TEMP=395.2 DEG C (743. DEG F),  
AIR FLOW=6.41 KG/SEC (14.1 #/SEC), FUEL FLOW= 130. KG/HR (287. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

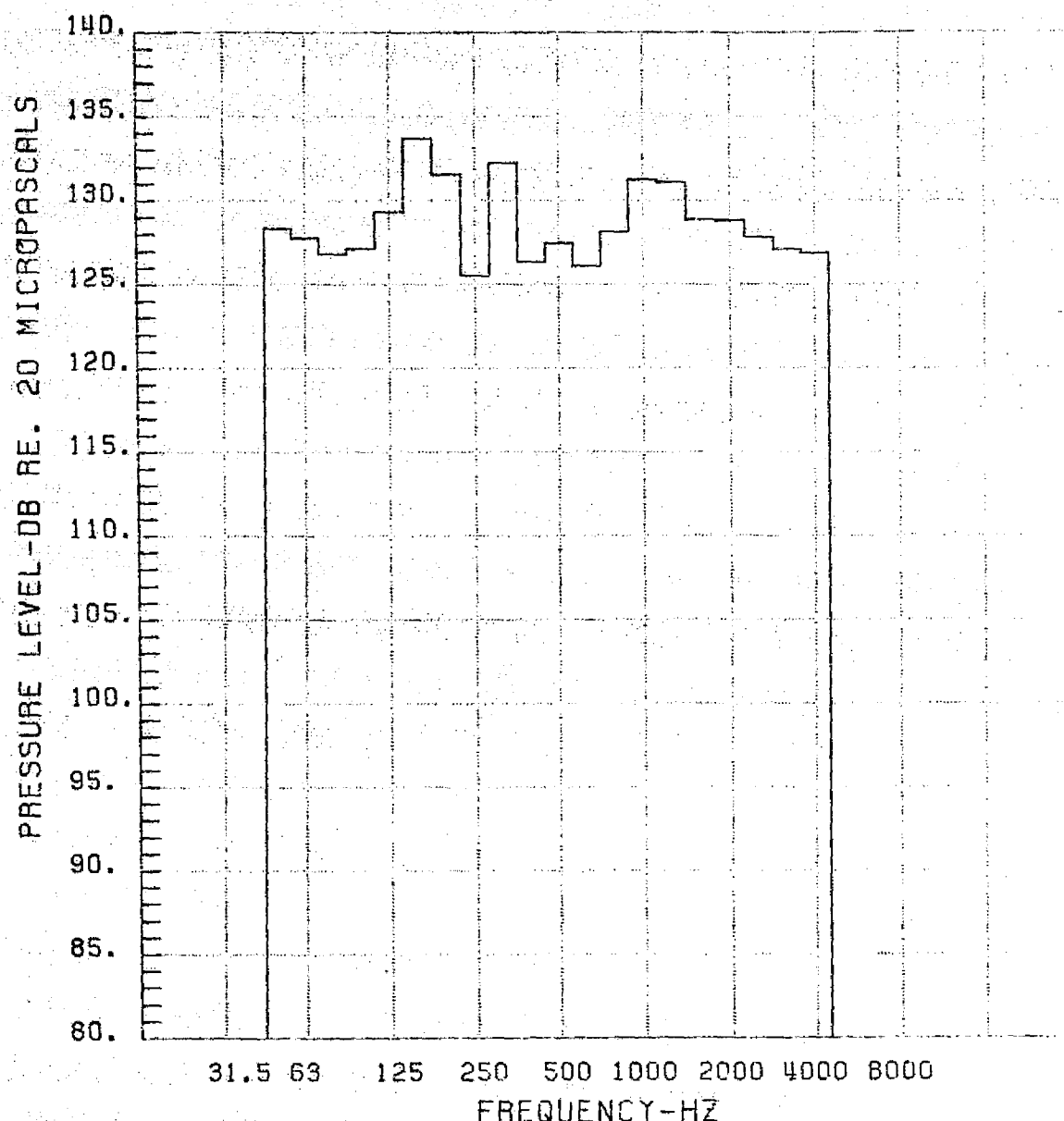
GROUP: V

RUN NUMBER: 12



AVCO-LYCUMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 375. KPA (54.3 PSIA), COMB EXIT TEMP= 395.2 DEG C (743. DEG F),  
AIR FLOW= 6.41 KG/SEC (14.1 #/SEC), FUEL FLOW= 130. KG/HR (287. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: V RUN NUMBER: 12

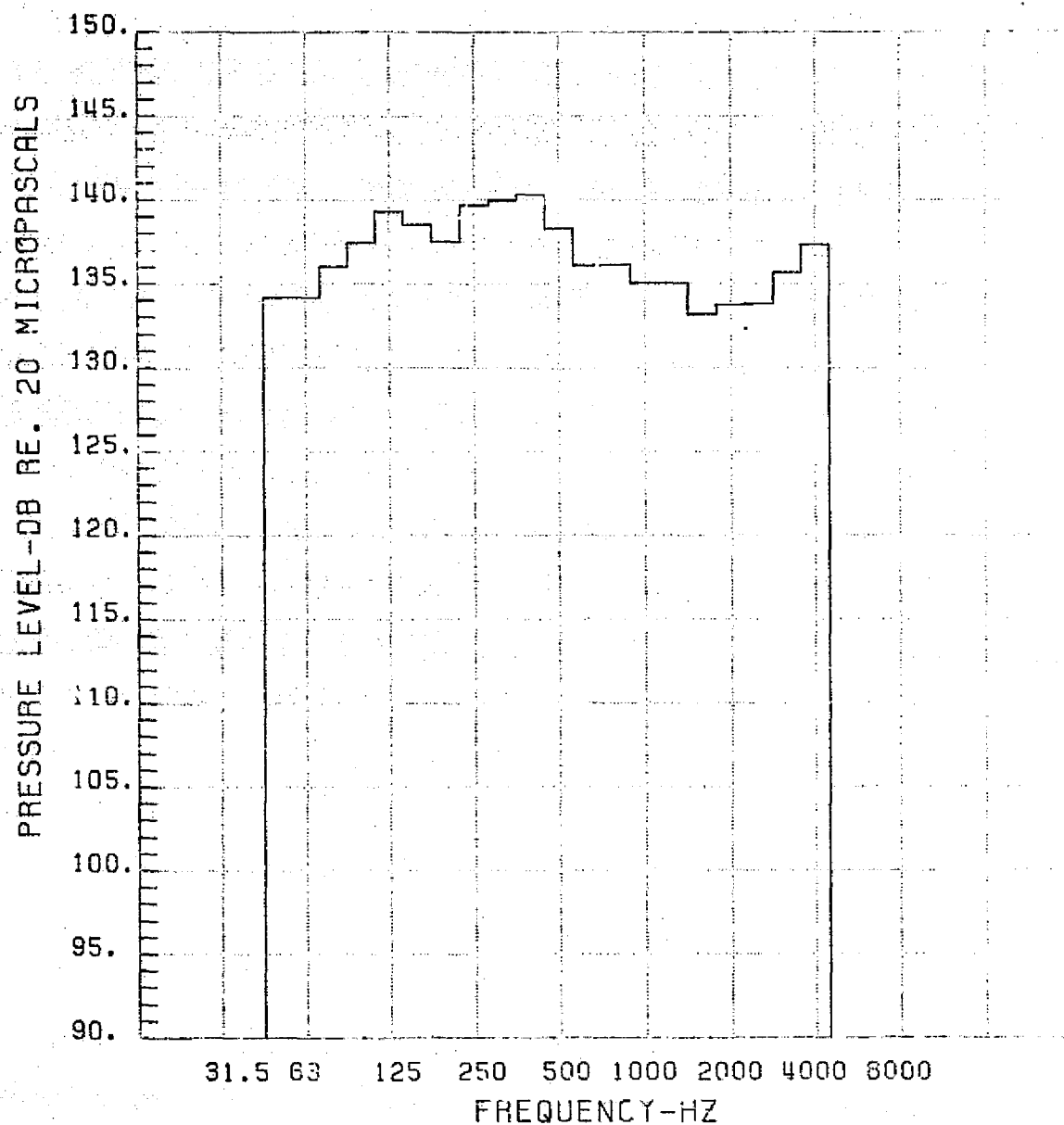


AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

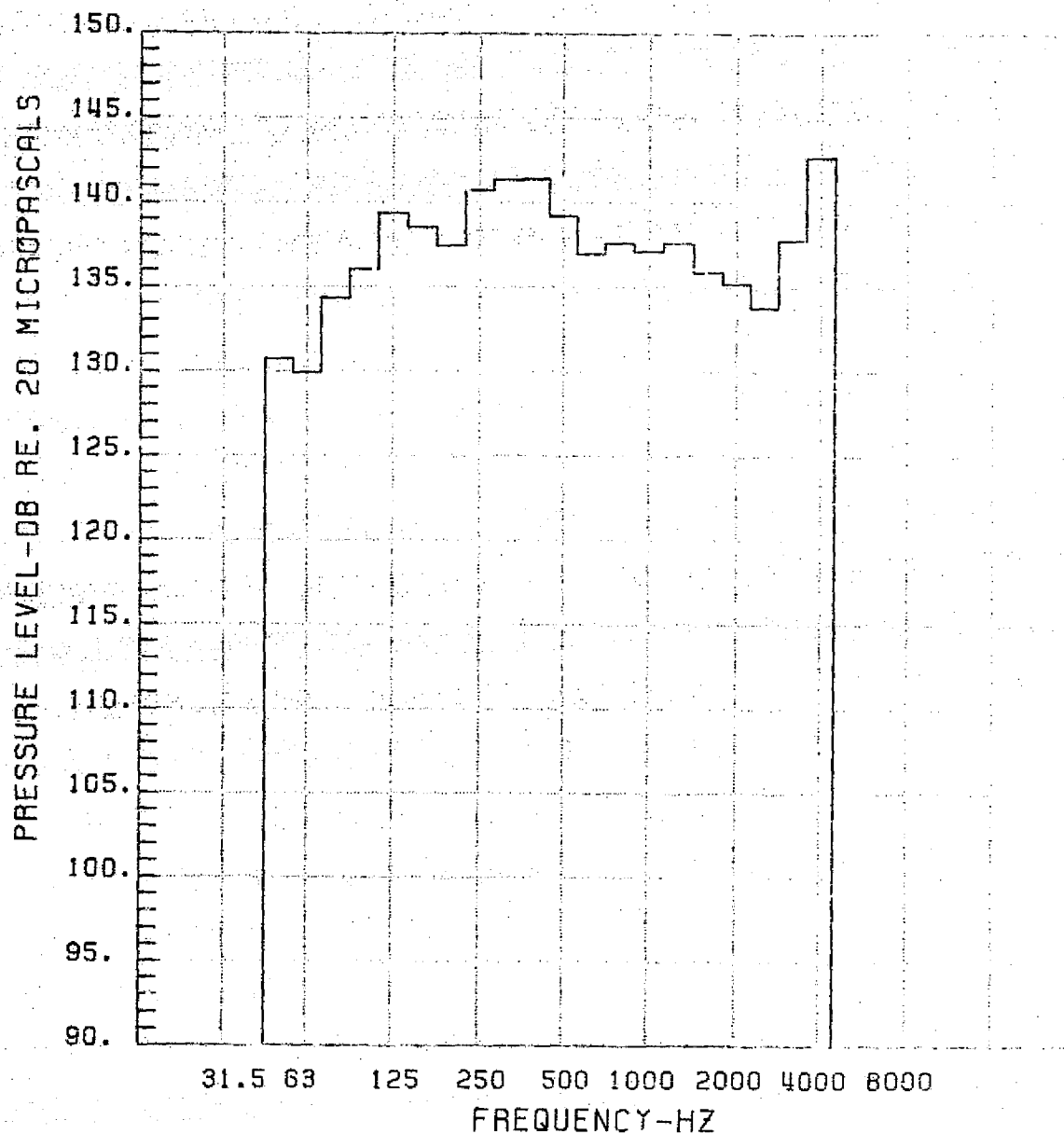
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 375. KPA (54.3 PSIA), COMB EXIT TEMP= 395.2 DEG C (743. DEG F),  
AIR FLOW= 6.41 KG/SEC (14.1 #/SEC), FUEL FLOW= 130. KG/HR (287. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 6. GROUP: V RUN NUMBER: 12



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO PIR RATIO OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP=801.6 DEG C (1475. DEG F),  
AIR FLOW=6.37 KG/SEC (14.1 #/SEC), FUEL FLOW= 389. KG/HR (859. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 1. GROUP: V RUN NUMBER: 13



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

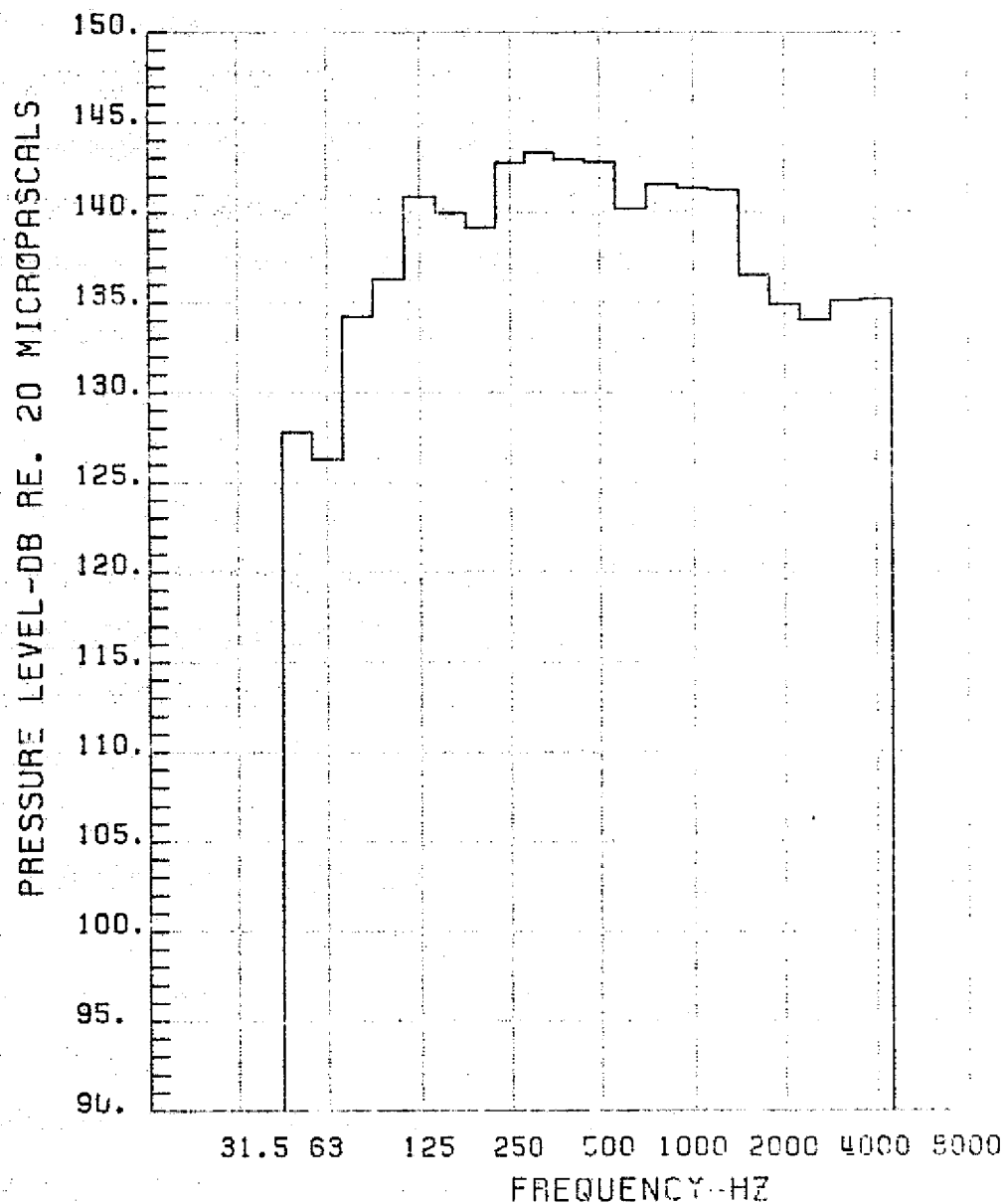
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 801.6 DEG C (1475. DEG F),  
AIR FLOW= 6.37 KG/SEC (14.1 #/SEC), FUEL FLOW= 389. KG/HR (859. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: V

RUN NUMBER: 13



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

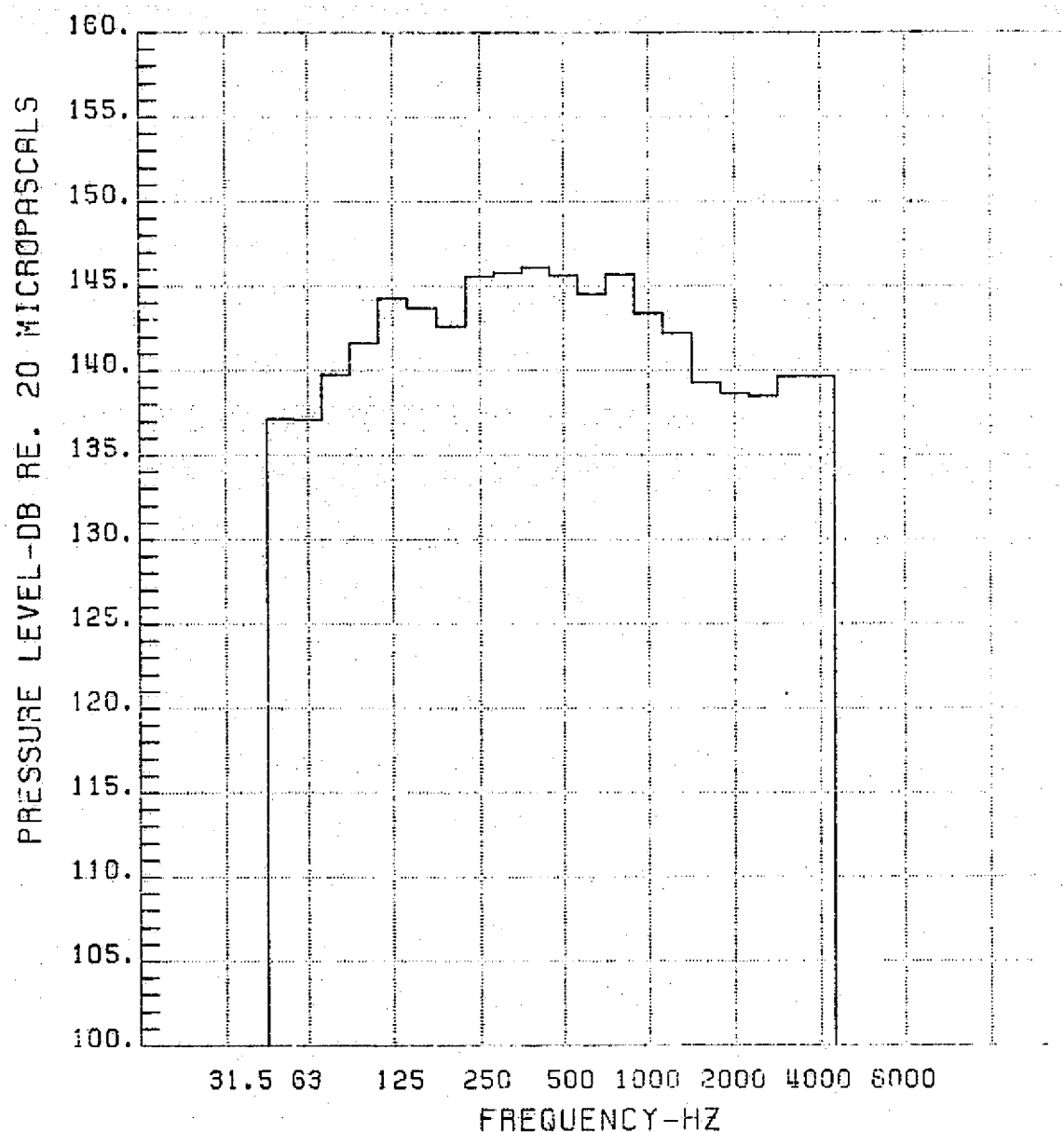
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 801.6 DEG C (1475. DEG F),  
AIR FLOW= 6.37 KG/SEC (14.1 \*/SEC), FUEL FLOW= 389. KG/HR (859. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: V

RUN NUMBER: 13



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP=801.6 DEG C (1475. DEG F),  
AIR FLOW=6.37 KG/SEC (14.1 \*/SEC), FUEL FLOW= 389. KG/HR (859. \*/HR)

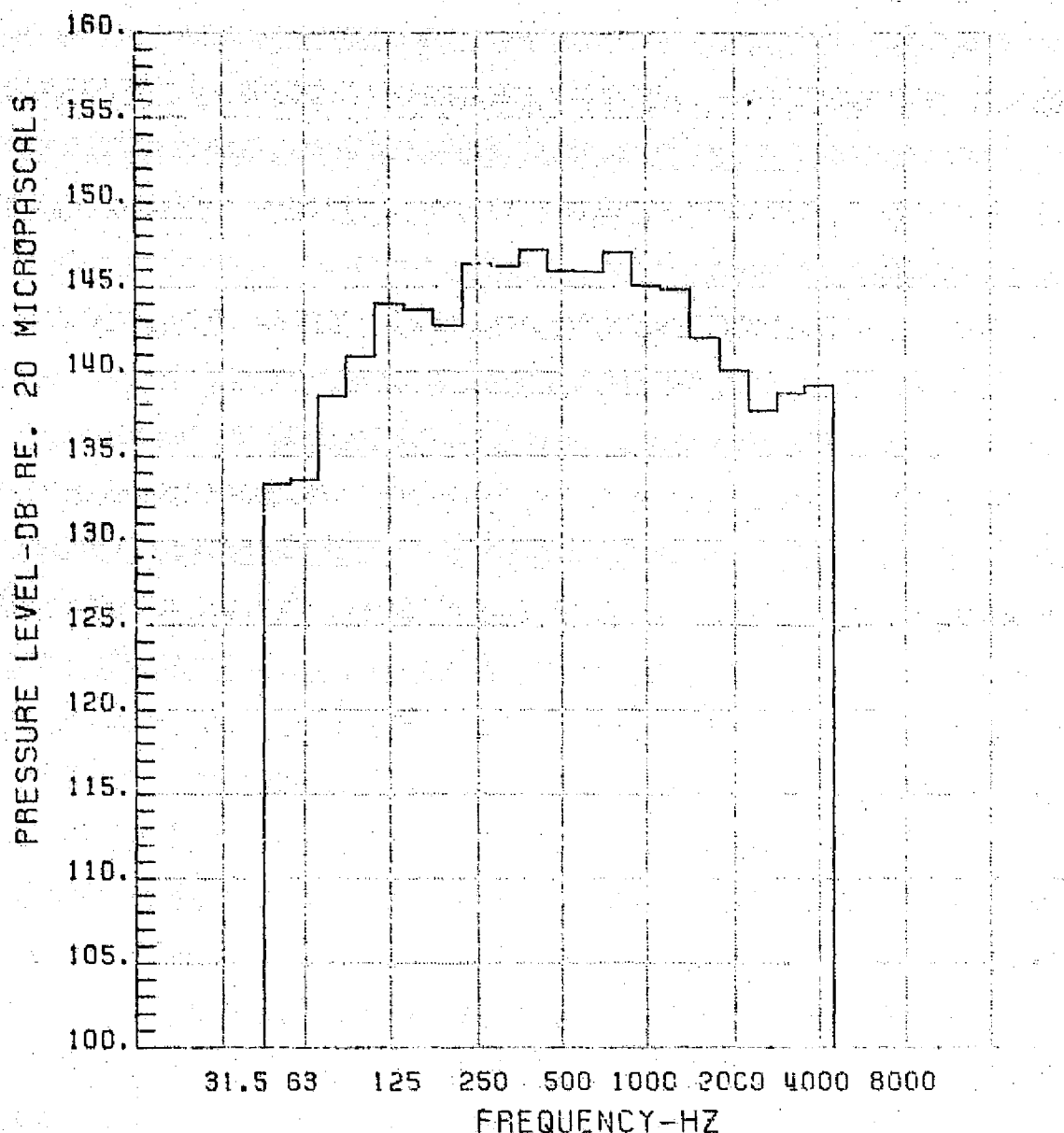
TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: V

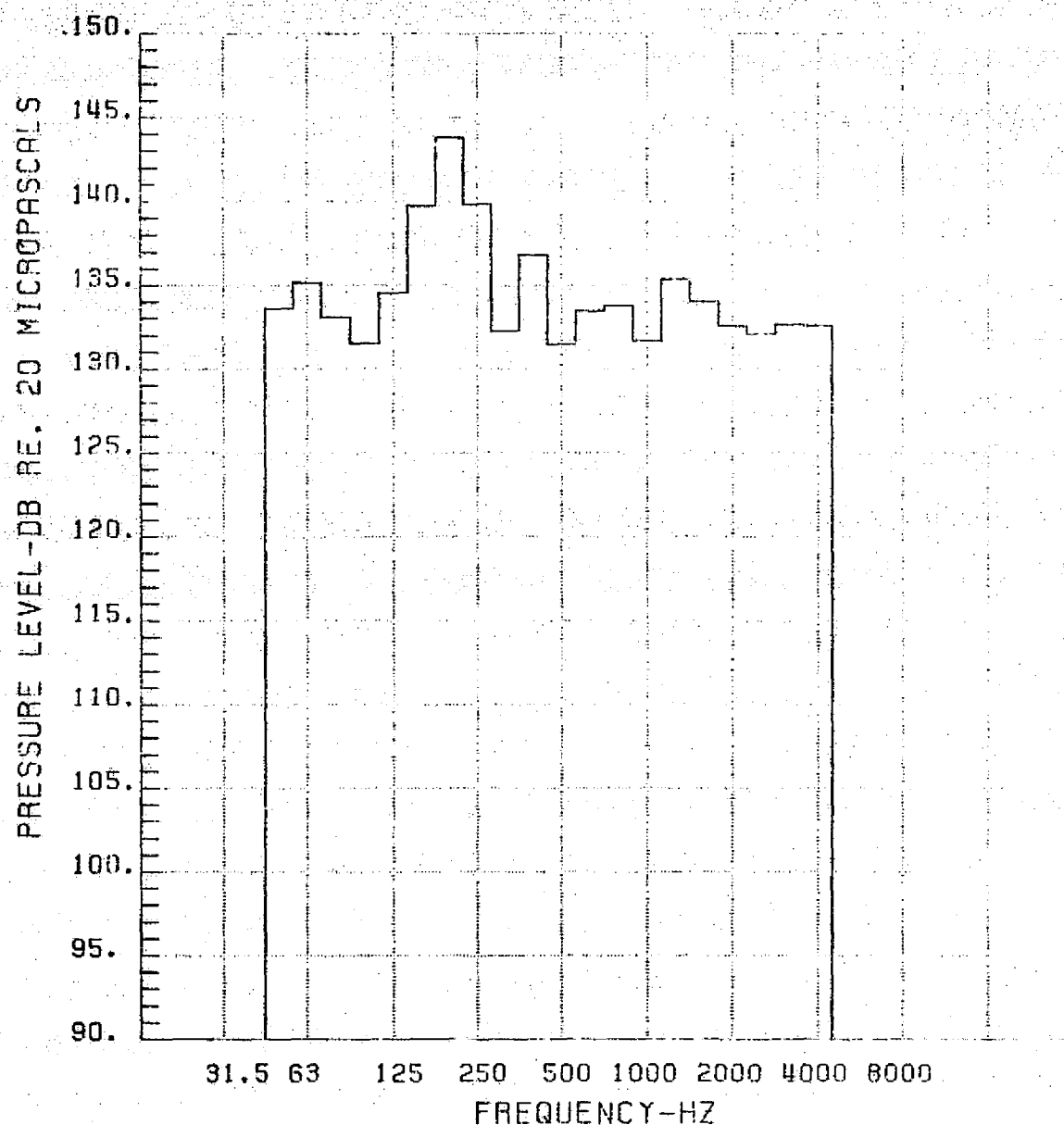
RUN NUMBER: 13





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAMFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 801.6 DEG C (1475. DEG F),  
AIR FLOW= 6.37 KG/SEC (14.1 #/SEC), FUEL FLOW= 389. KG/HR (859. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: V RUN NUMBER: 13



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06197  
**ONE THIRD OCTAVE BAND ANALYSIS**

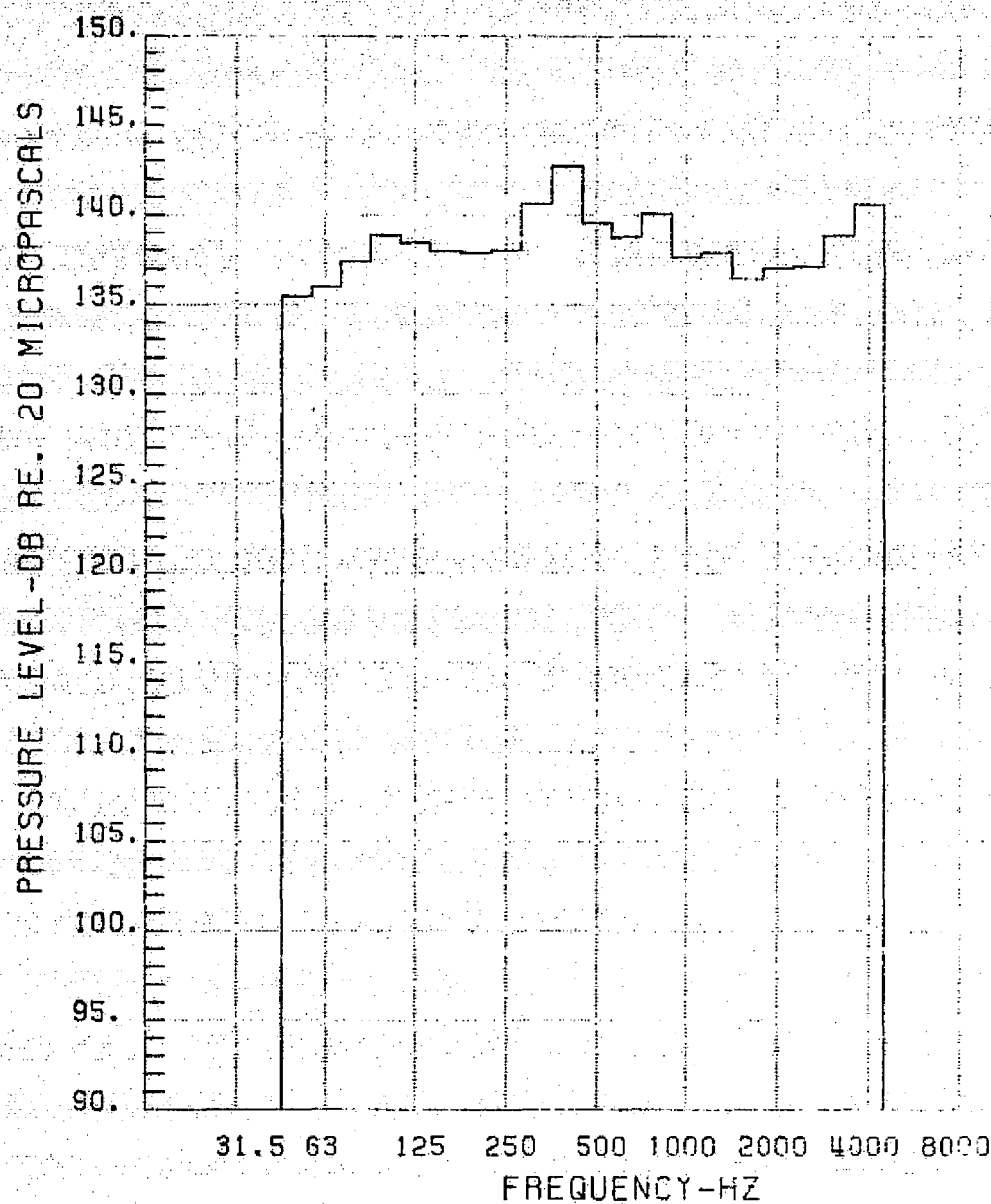
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 374. KPA (54.2 PSIA), COMB EXIT TEMP= 801.6 DEG C (1475. DEG F).  
AIR FLOW= 6.37 KG/SEC (14.1 \*/SEC), FUEL FLOW= 389. KG/HR (859. \*/HR)

TEST DATE: 4/19-21/77

PROSE NUMBER: 6.

GROUP: V

RUN NUMBER: 13



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
**ONE THIRD OCTAVE BAND ANALYSIS**

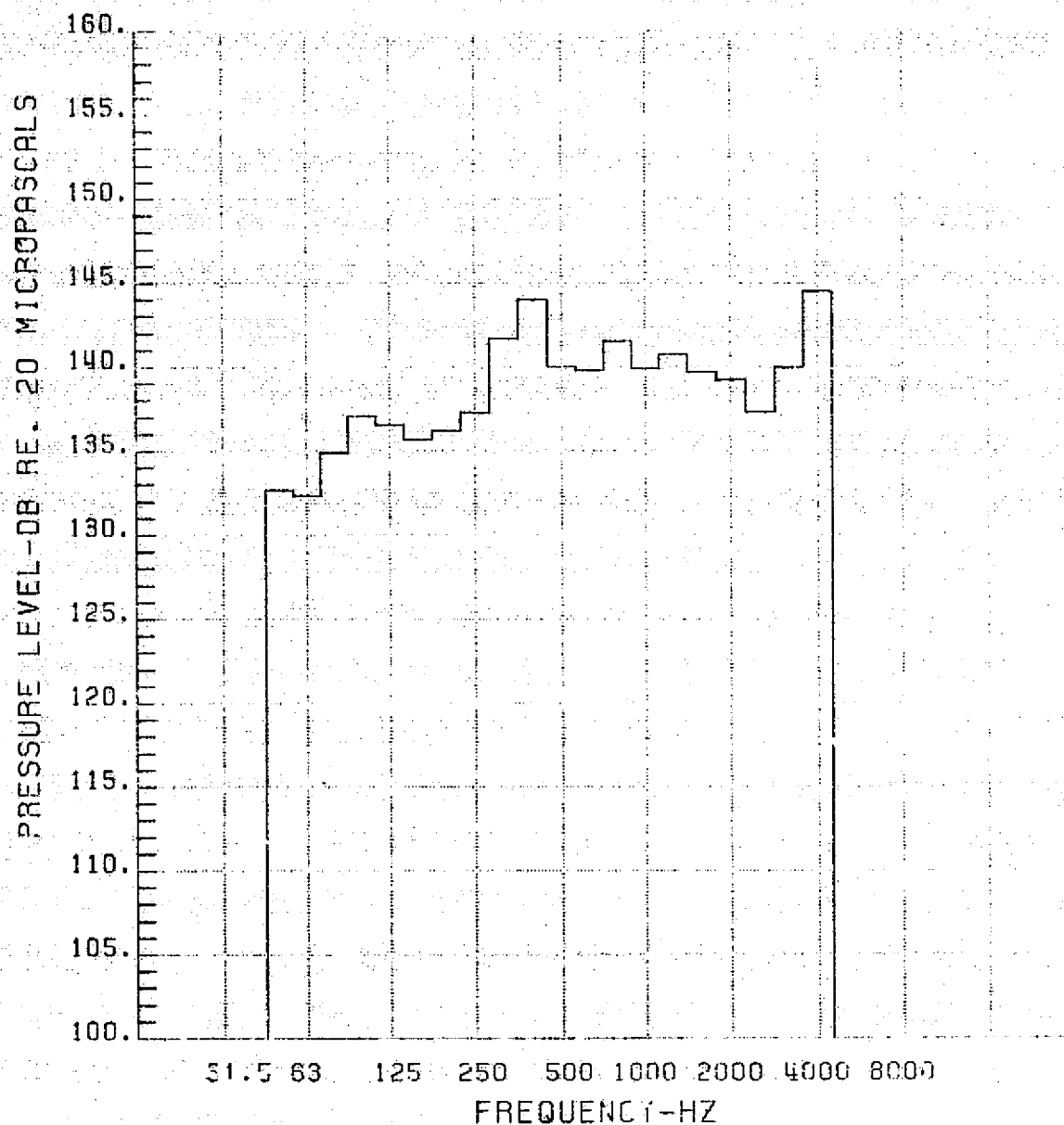
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 555. KPA (80.4 PSIA), COMB EXIT TEMP=473.1 DEG C (884. DEG F),  
AIR FLOW=9.49 KG/SEC (20.9 #/SEC), FUEL FLOW= 211. KG/HR (465. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: V

RUN NUMBER: 28



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

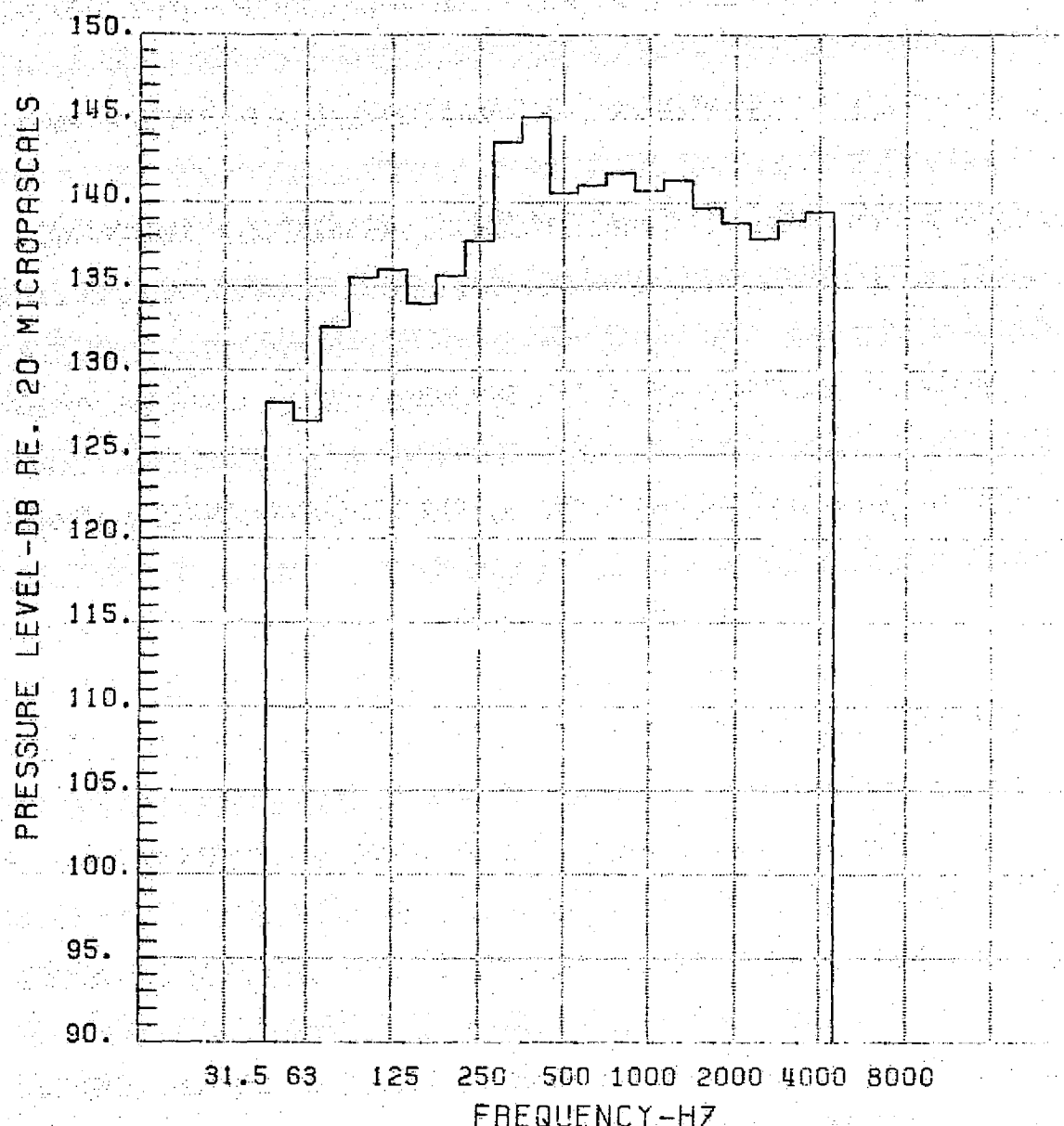
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 555. KPA (80.4 PSIA), COMB EXIT TEMP=473.1 DEG C (884. DEG F),  
AIR FLOW=9.49 KG/SEC (20.9 #/SEC), FUEL FLOW= 211. KG/HR (465. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: V

RUN NUMBER: 28



AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STRATFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

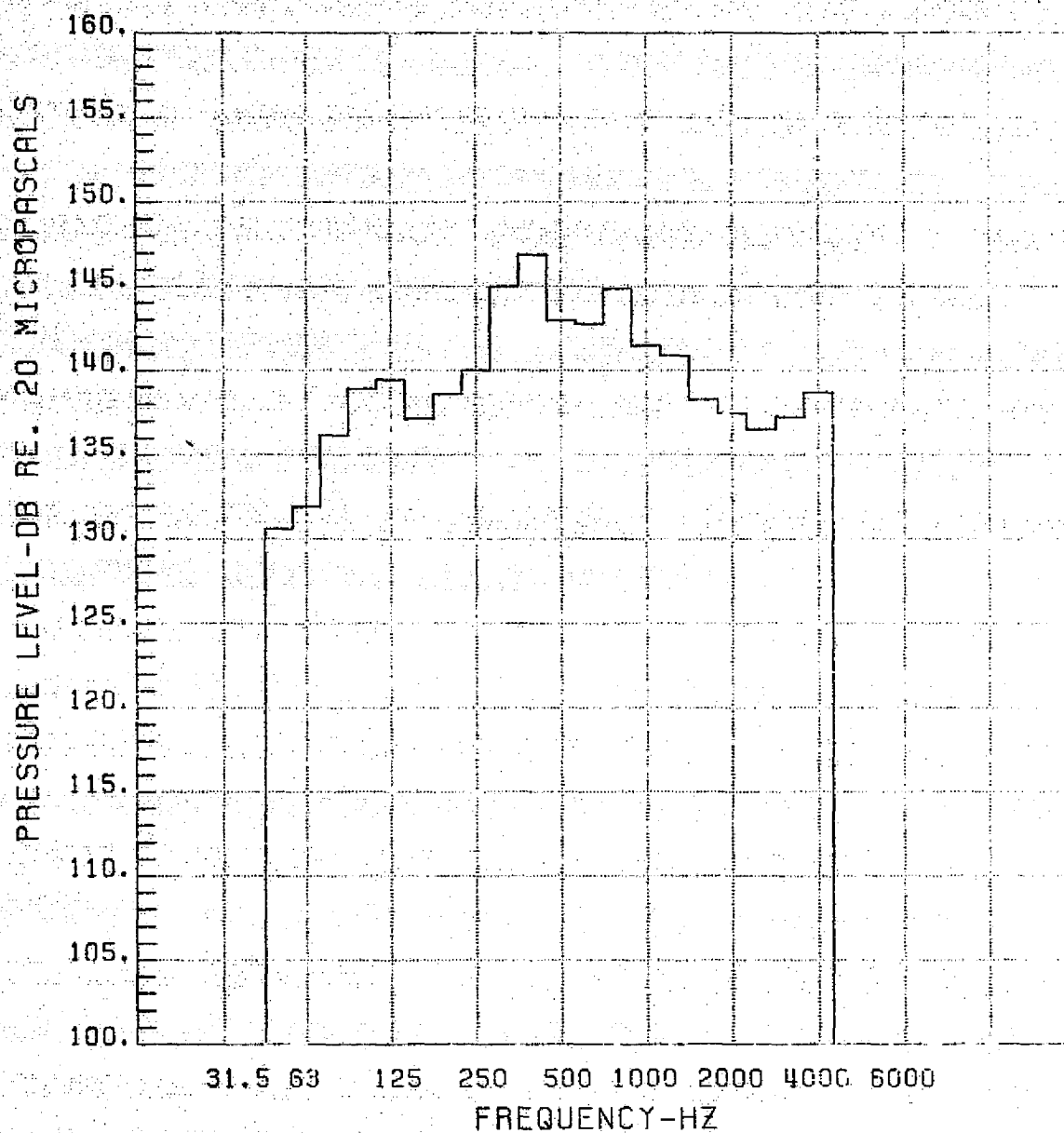
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 555. KPA (80.4 PSIA), COMB EXIT TEMP=473.1 DEG C (884. DEG F),  
AIR FLOW=9.49 KG/SEC (20.9 #/SEC), FUEL FLOW= 211. KG/HR (465. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: V

RUN NUMBER: 28



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

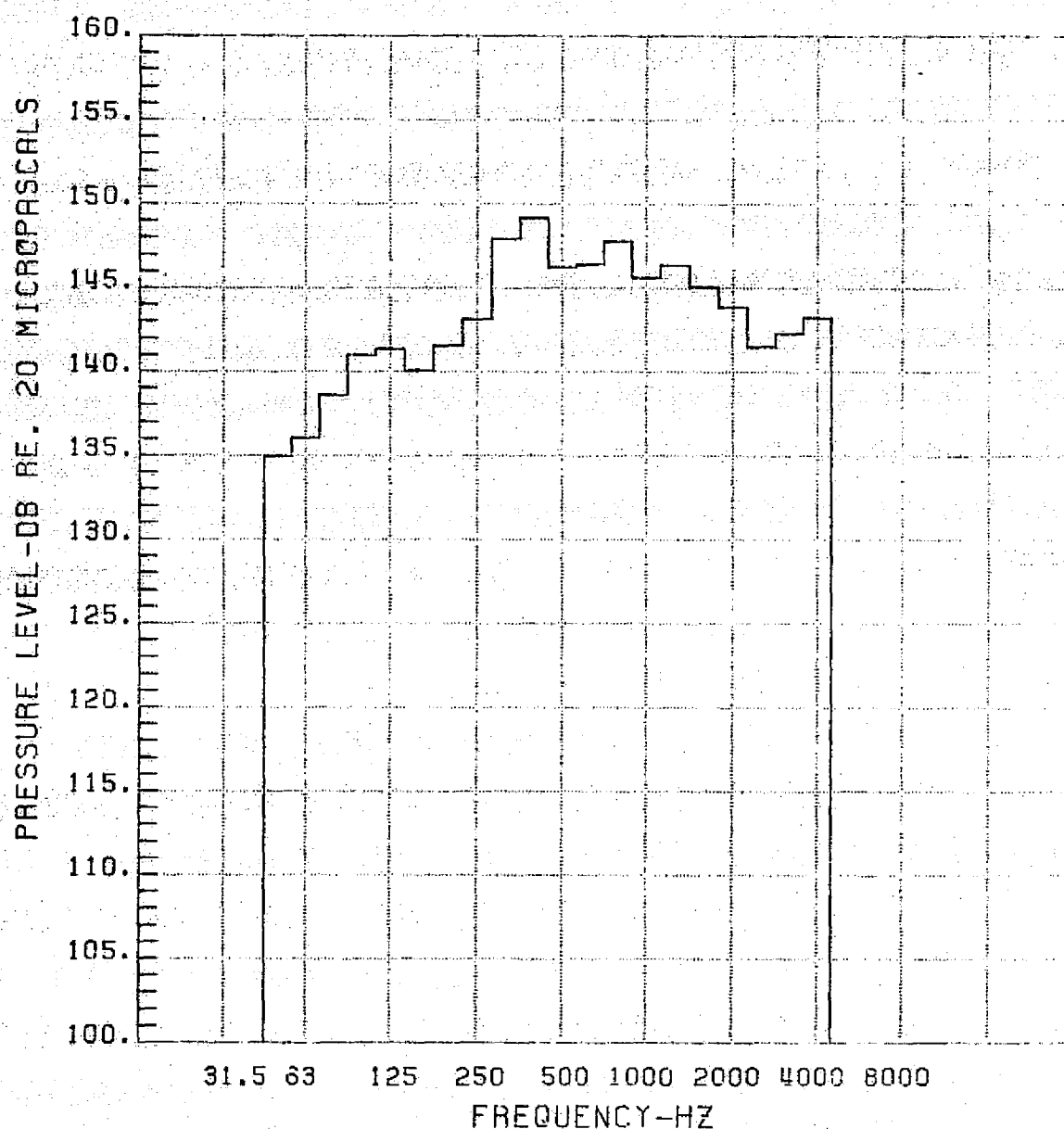
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 555. KPA (80.4 PSIA), COMB EXIT TEMP=473.1 DEG C (894. DEG F),  
AIR FLOW=9.49 KG/SEC (20.9 \*/SEC), FUEL FLOW= 211. KG/HR (465. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: V

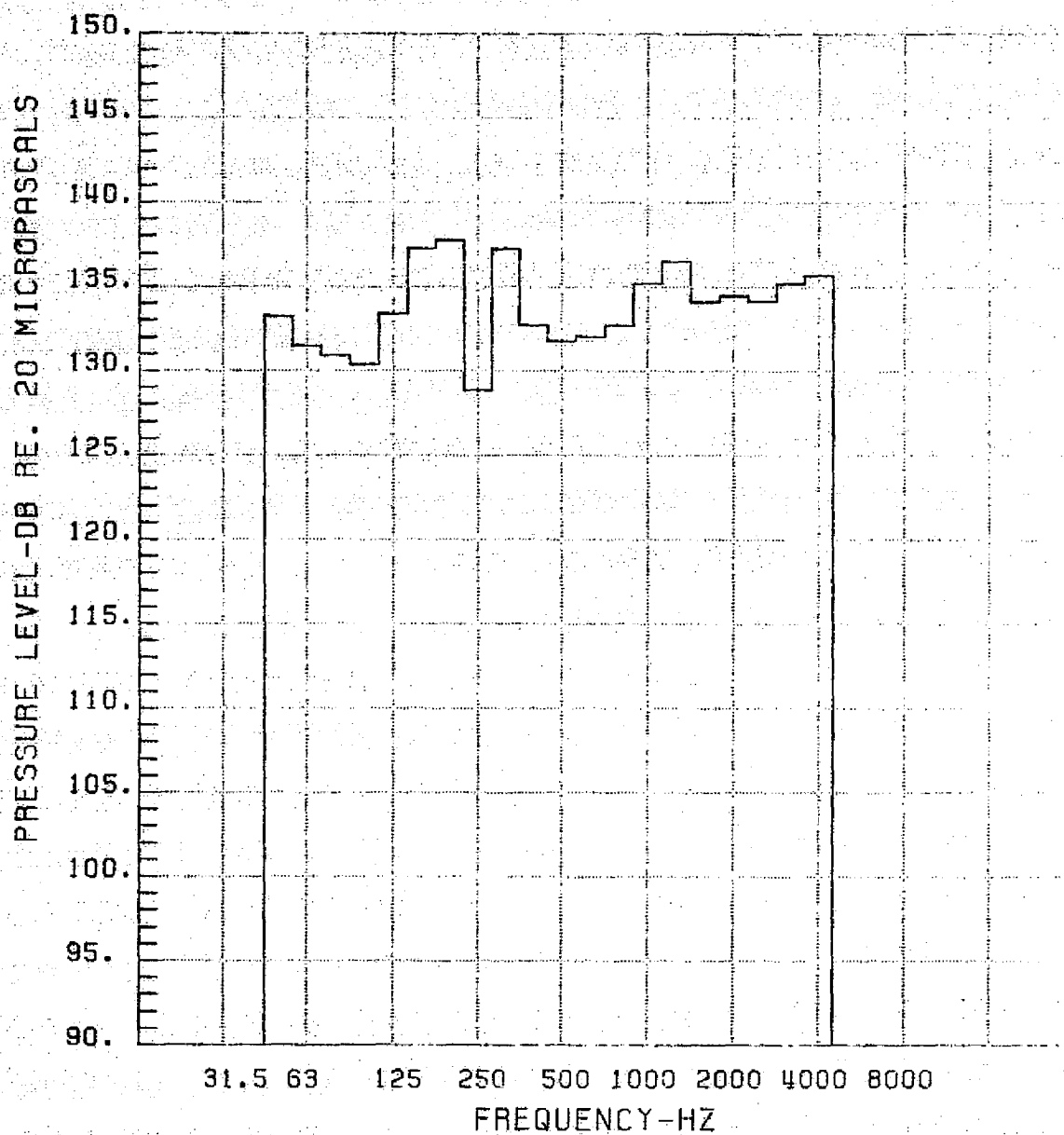
RUN NUMBER: 28



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 555. KPA (80.4 PSIA), COMB EXIT TEMP=473.1 DEG C (884. DEG F),  
AIR FLOW=9.49 KG/SEC (20.9 \*/SEC), FUEL FLOW= 211. KG/HR (465. \*/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: V RUN NUMBER: 28





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AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497

### ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 555. KPA (80.4 PSIA), COMB EXIT TEMP=473.1 DEG C (884. DEG F),  
AIR FLOW=9.49 KG/SEC (20.9 \*/SEC), FUEL FLOW= 211. KG/HR (465. \*/HR)

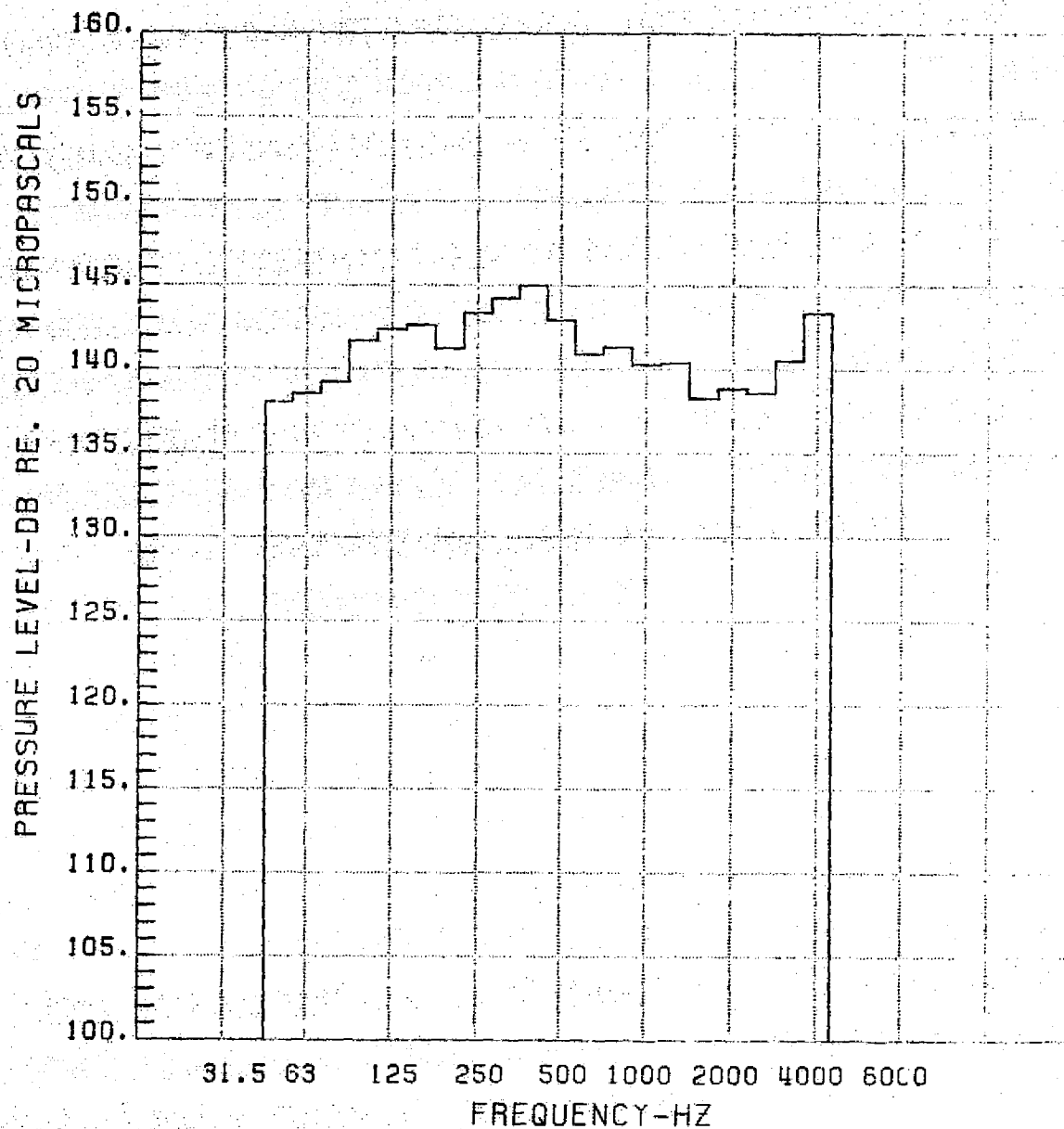
TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: V

RUN NUMBER: 28





AVCO-LYCOMING DIVISION

550 SOUTH MAIN ST., STAFFORD, CONN. 06497

ONE THIRD OCTAVE BAND ANALYSIS

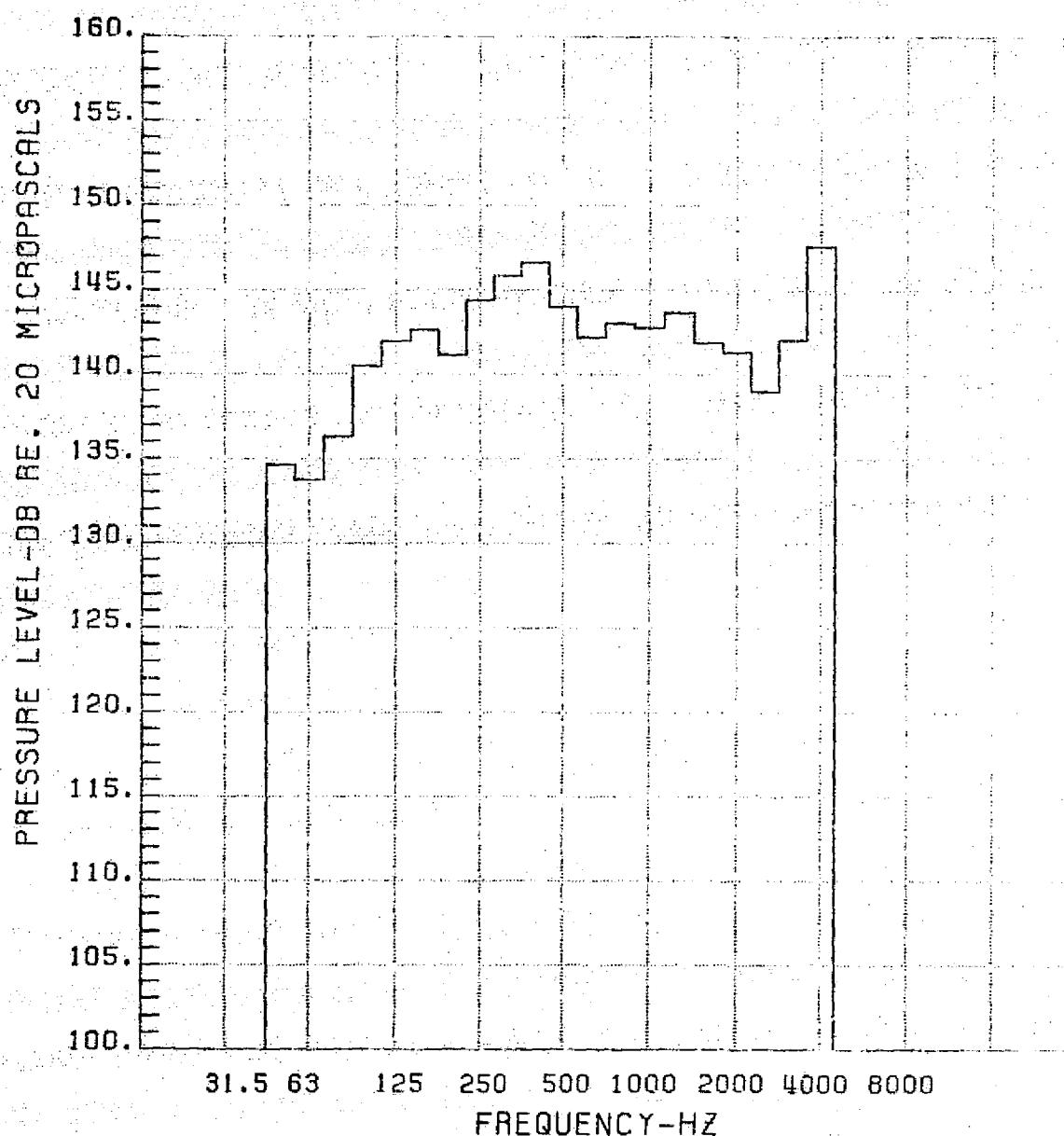
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP= 888.4 DEG C (1631. DEG F),  
AIR FLOW= 9.59 KG/SEC (21.1 \*/SEC), FUEL FLOW= 629. KG/HR (1388. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: V

RUN NUMBER: 29



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

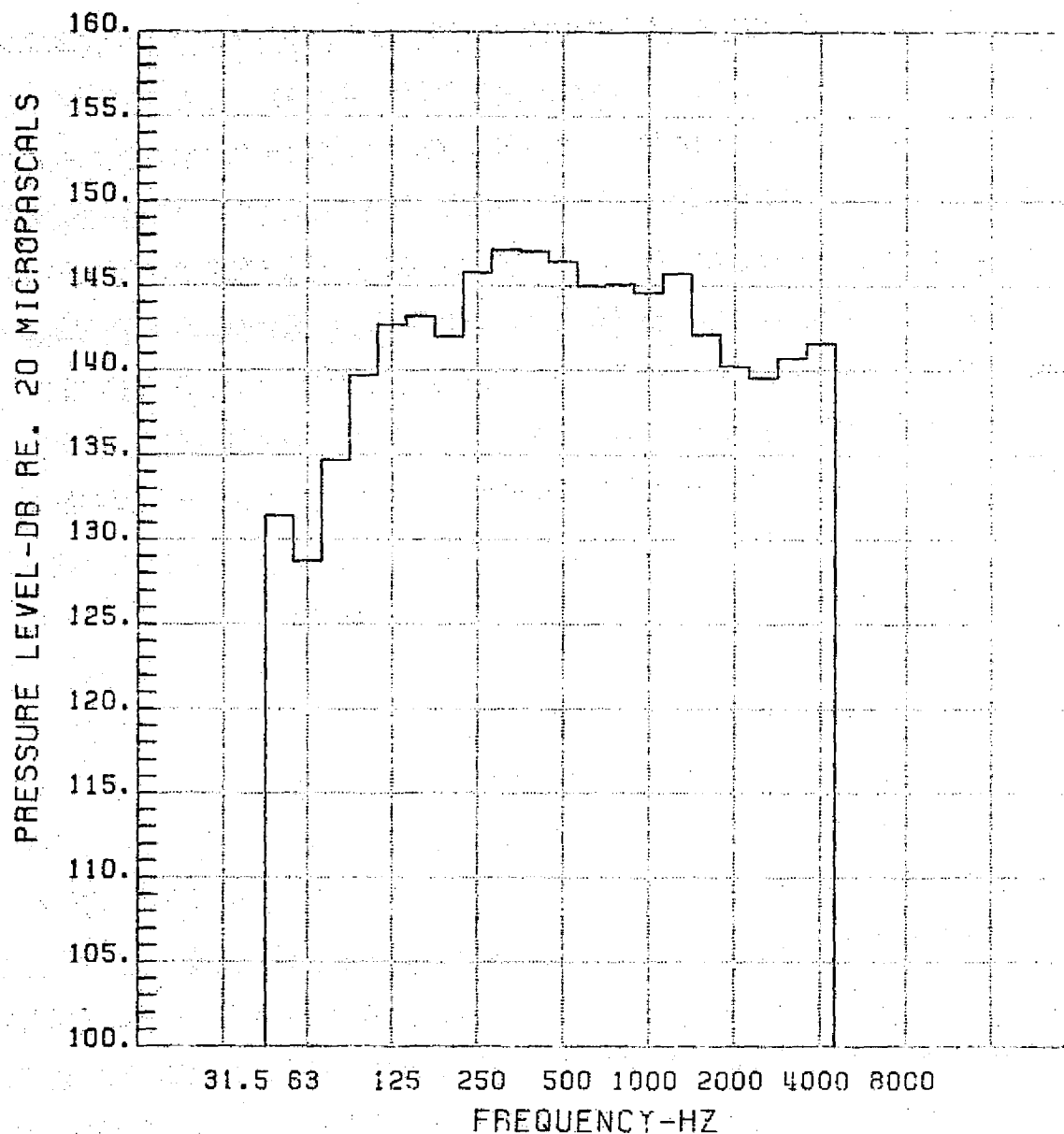
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP=888.4 DEG C (1631. DEG F),  
AIR FLOW=9.59 KG/SEC (21.1 \*/SEC), FUEL FLOW= 629. KG/HR (1388. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: V

RUN NUMBER: 29



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

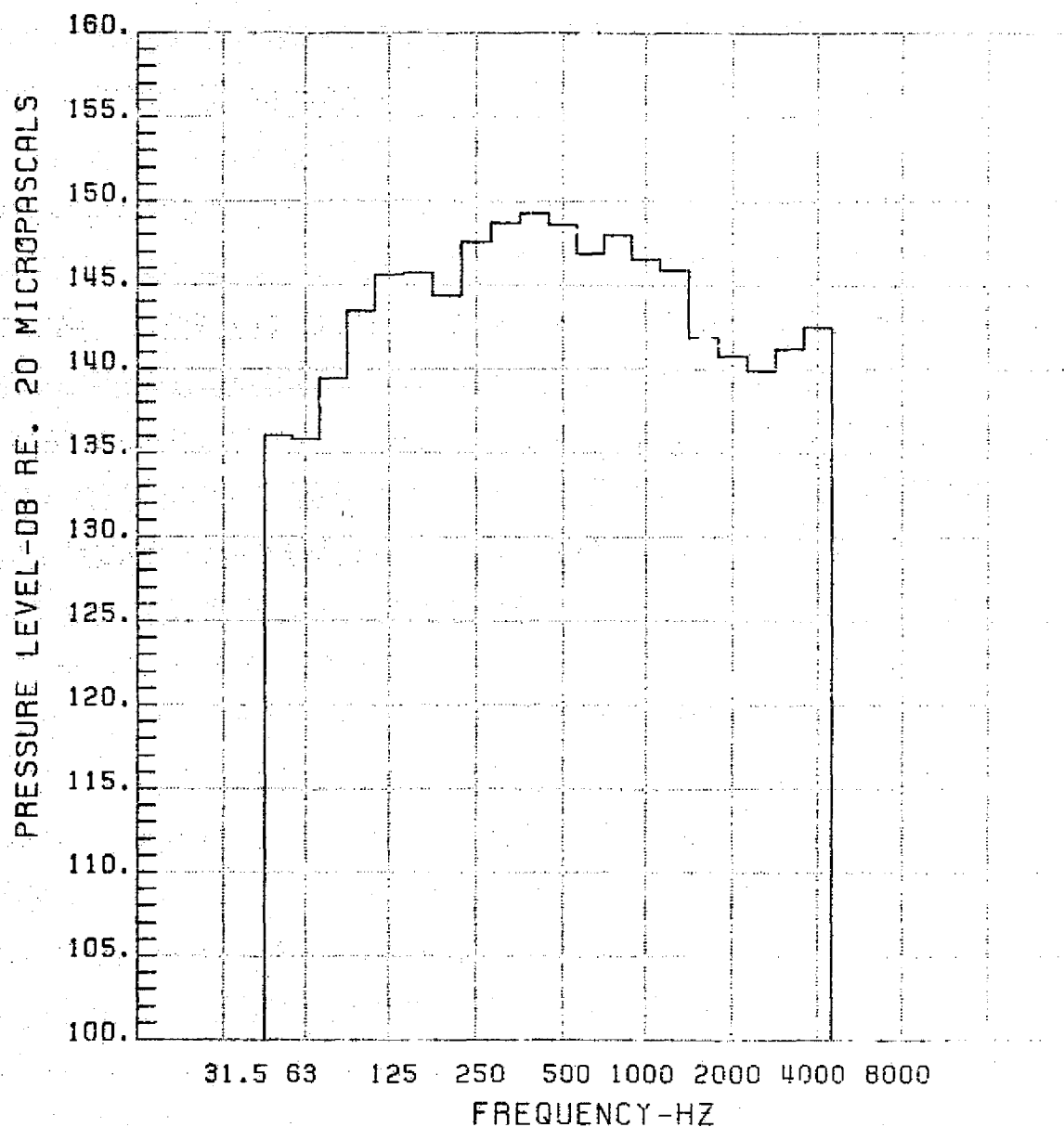
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 559. KPA (80.3 PSIA), COMB EXIT TEMP= 889.4 DEG C (1631. DEG F),  
AIR FLOW= 9.59 KG/SEC (21.1 #/SEC), FUEL FLOW= 629. KG/HRI (1388. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: V

RUN NUMBER: 29



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

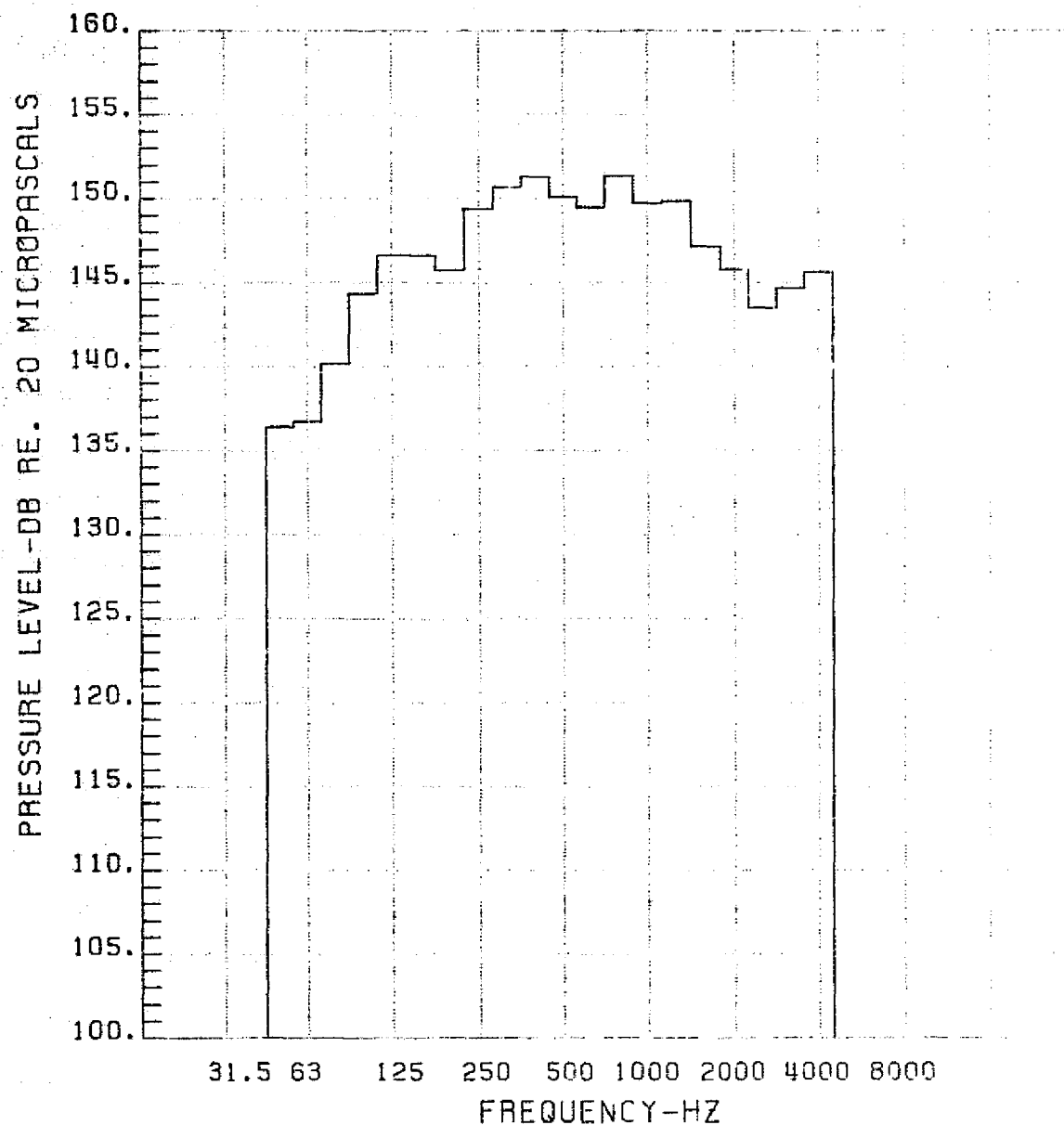
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP= 888.4 DEG C (1631. DEG F),  
AIR FLOW= 9.59 KG/SEC (21.1 #/SEC), FUEL FLOW= 629. KG/HR (1388. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

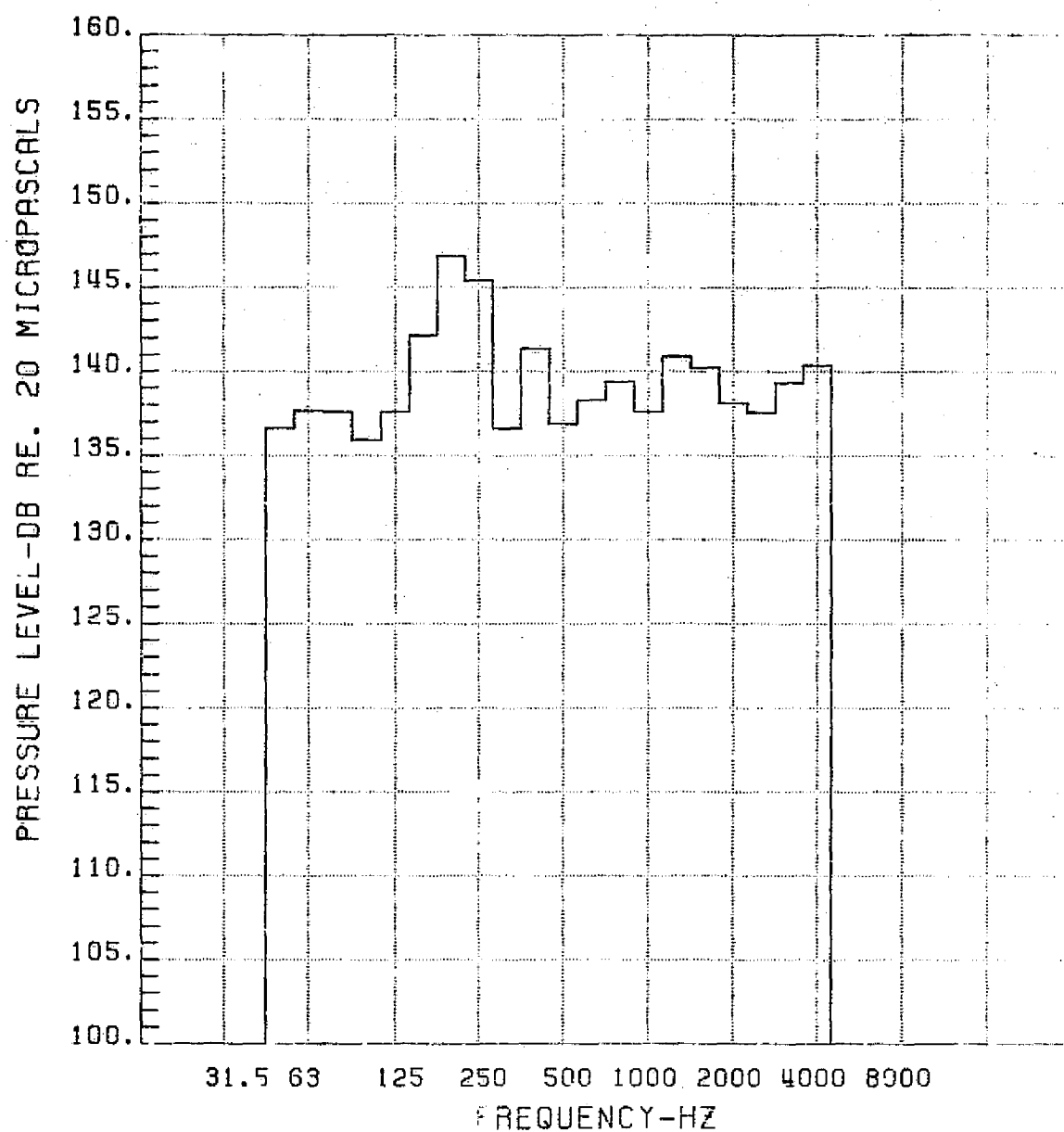
GROUP: V

RUN NUMBER: 29



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP= 888.4 DEG C (1631. DEG F),  
AIR FLOW= 9.59 KG/SEC (21.1 #/SEC), FUEL FLOW= 629. KG/HR (1368. #/HR)  
TEST DATE: 4/19-21/77  
PROBE NUMBER: 5. GROUP: V RUN NUMBER: 29



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06460  
ONE THIRD OCTAVE BAND ANALYSIS

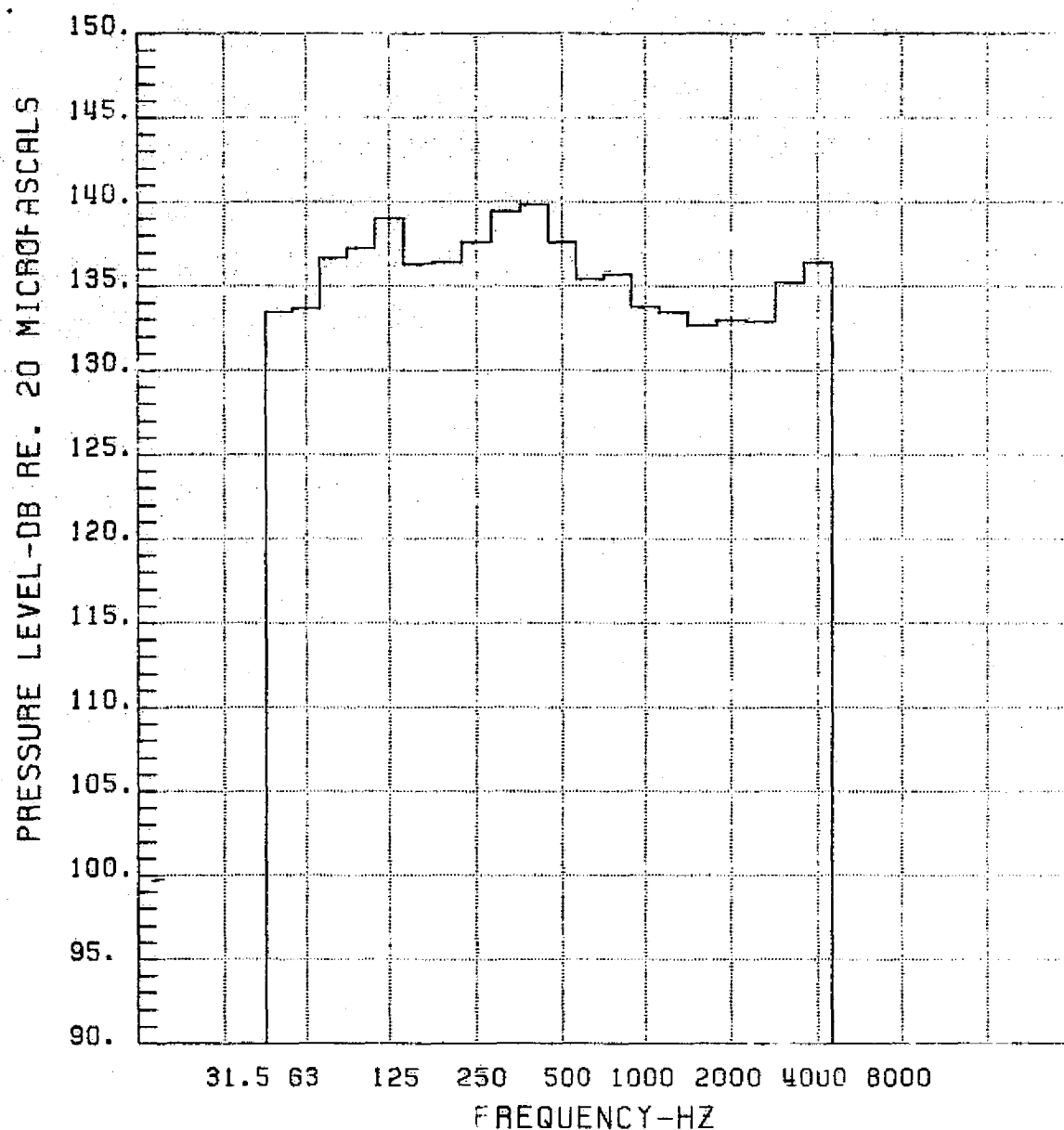
TITLE: OFF DESIGN FUEL TO AIR RATIO OPERATING POINTS  
INLET PRESS= 553. KPA (80.3 PSIA), COMB EXIT TEMP=888.4 DEG C (1631. DEG F),  
AIR FLOW=9.59 KG/SEC (21.1 #/SEC), FUEL FLOW= 629. KG/HR (1388. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: V

RUN NUMBER: 29



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

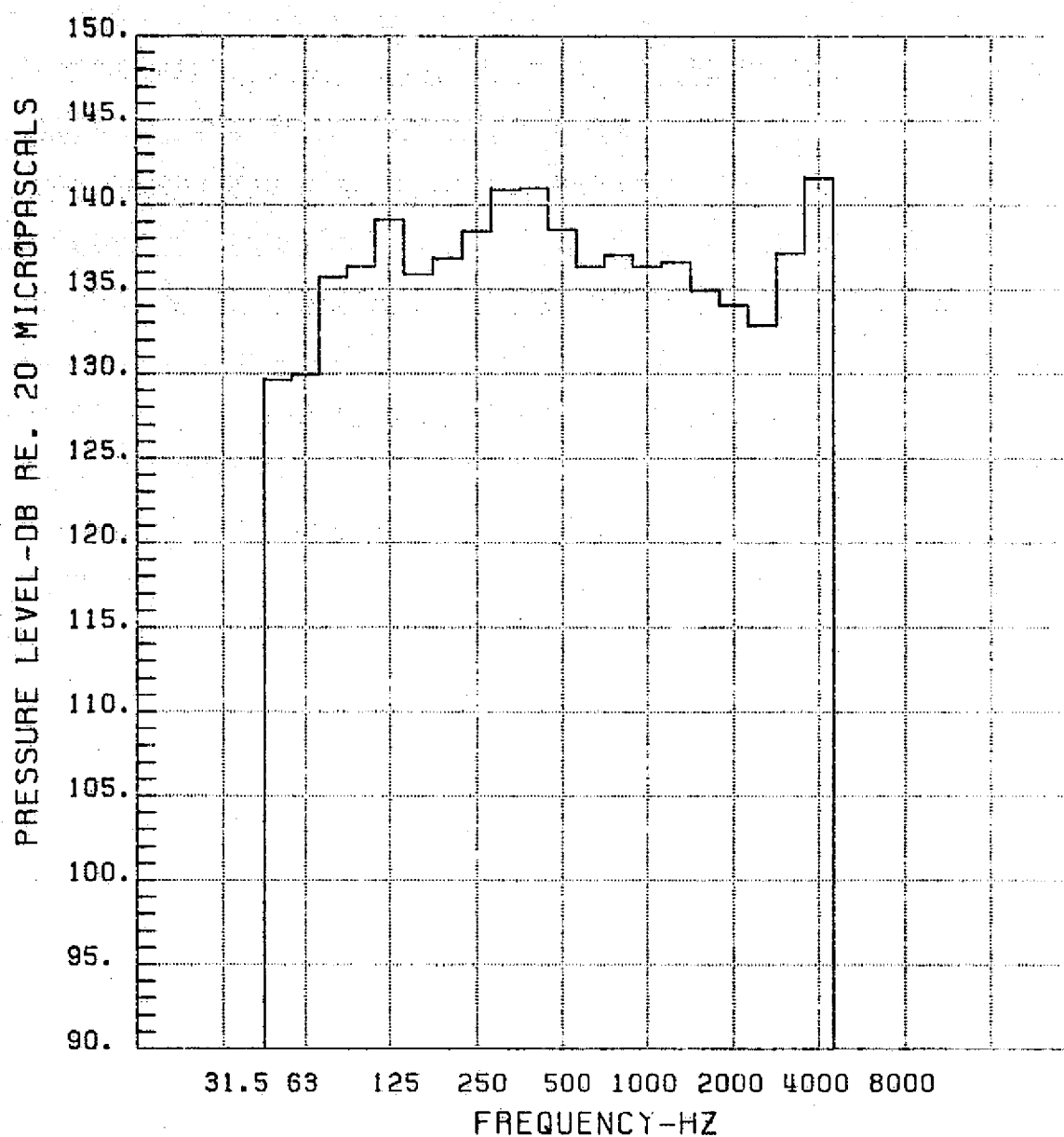
TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP= 563.7 DEG C (1047. DEG F),  
AIR FLOW= 6.50 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: VI

RUN NUMBER: 18



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP= 563.7 DEG C (1047. DEG F),  
AIR FLOW= 6.50 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

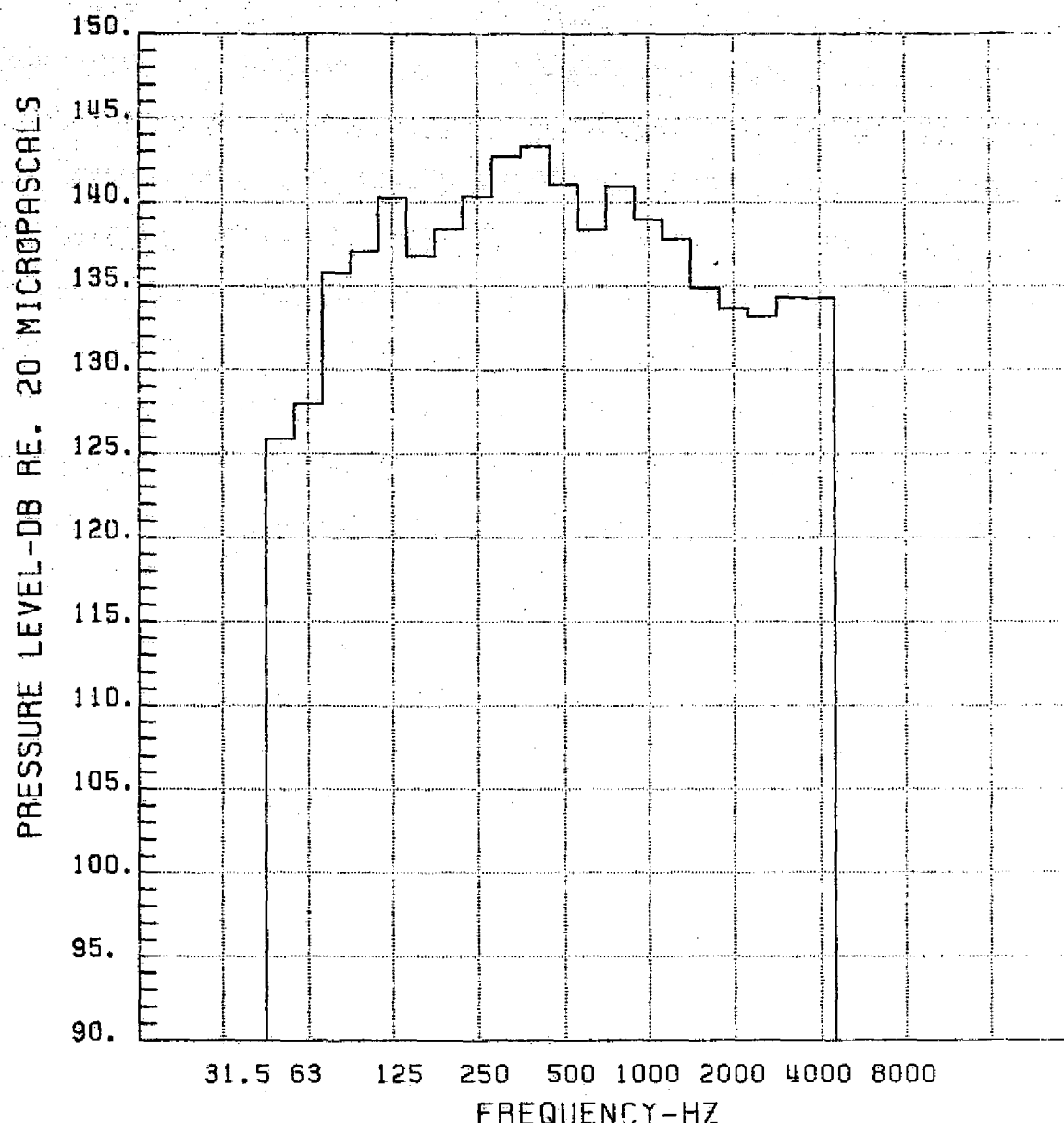
TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: VI

RUN NUMBER: 18





AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

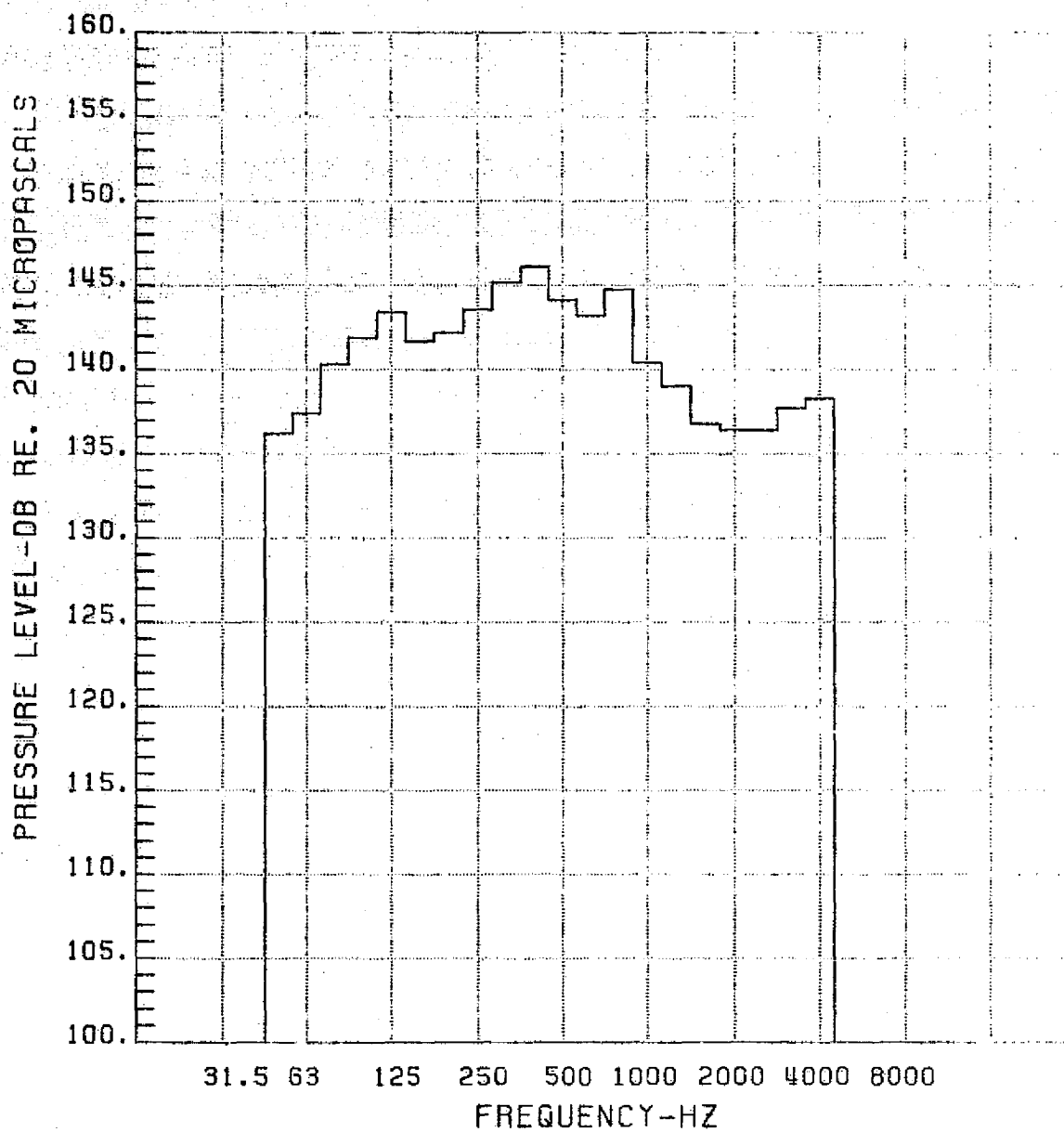
TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP= 563.7 DEG C (1047. DEG F),  
AIR FLOW= 6.50 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: VI

RUN NUMBER: 18



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

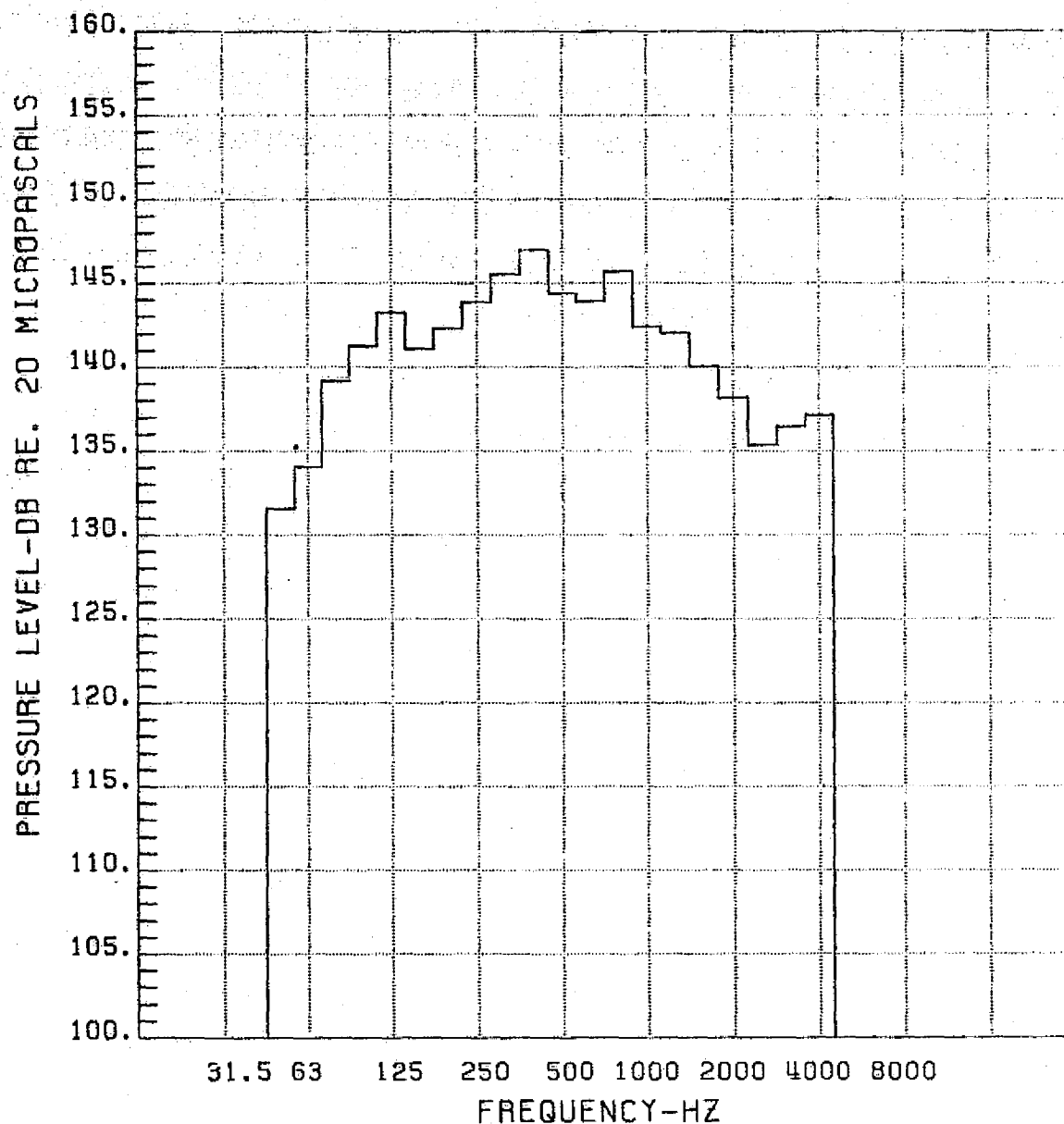
TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=563.7 DEG C (1047. DEG F),  
AIR FLOW=6.50 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: VI

RUN NUMBER: 18



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

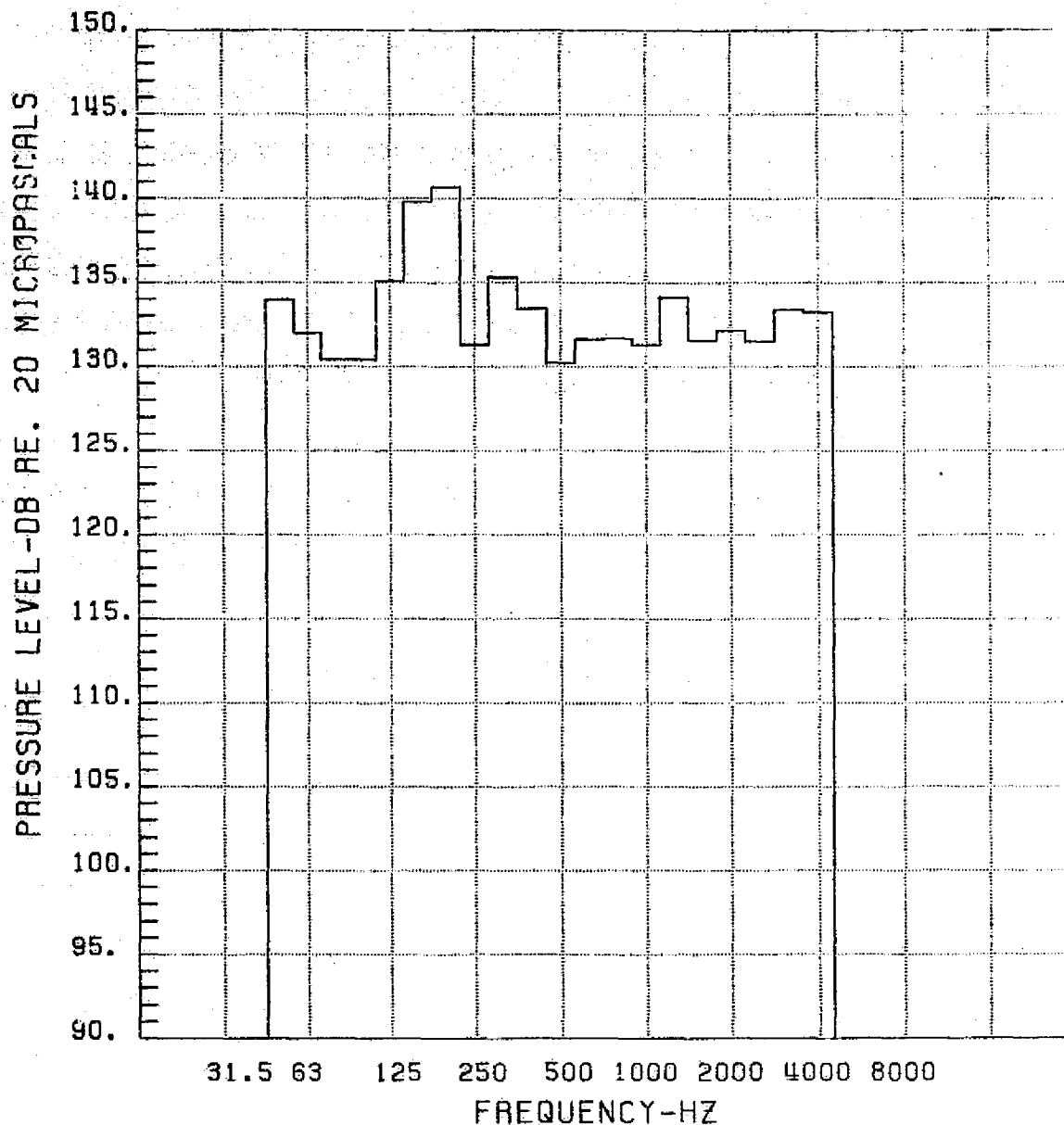
TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=563.7 DEG C (1047. DEG F),  
AIR FLOW=6.50 KG/SEC (14.3 #/SEC), FUEL FLOW= 261. KG/HR (575. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: VI

RUN NUMBER: 18



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

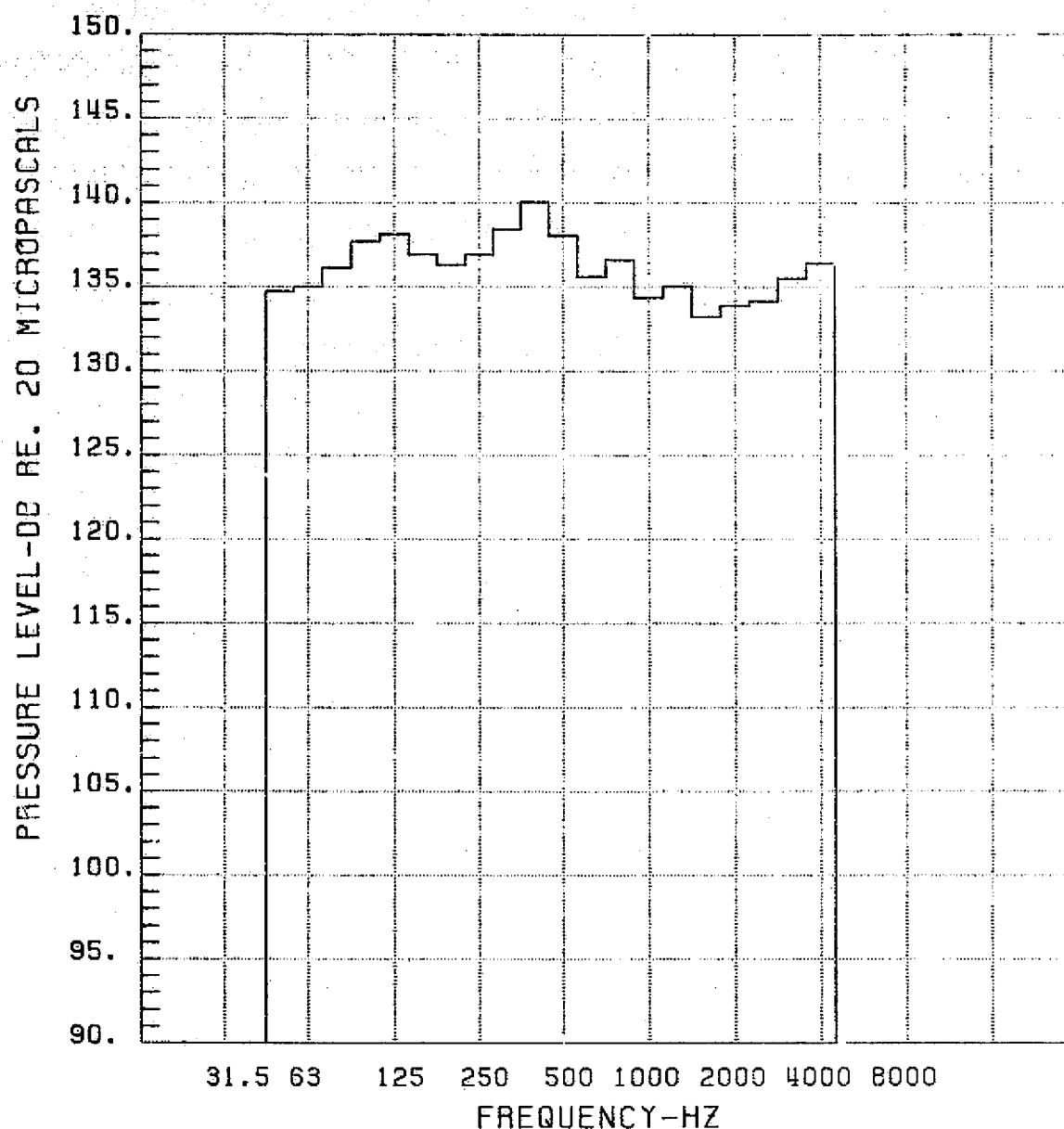
TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 374. KPA (54.3 PSIA), COMB EXIT TEMP=563.7 DEG C (1047. DEG F),  
AIR FLOW=6.50 KG/SEC (14.3 \*/SEC), FUEL FLOW= 261. KG/HR ( 575. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: VI

RUN NUMBER: 18



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

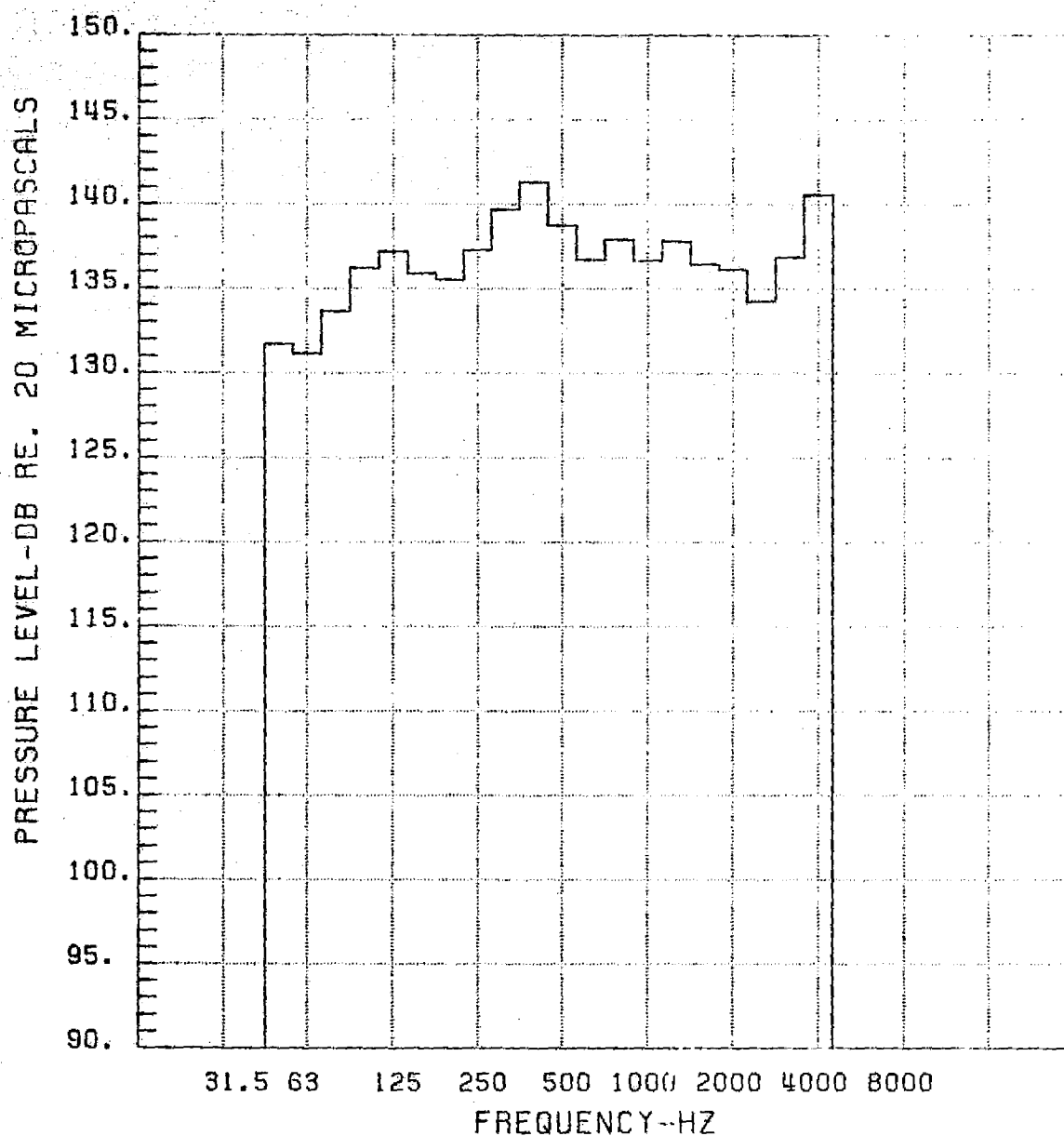
TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 373. KPA (54.2 PSIA), COMB EXIT TEMP= 650.5 DEG C (1203. DEG F),  
AIR FLOW= 6.49 KG/SEC (14.3 \*/SEC), FUEL FLOW= 263. KG/HR (579. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 1.

GROUP: VI

RUN NUMBER: 11



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STAFFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

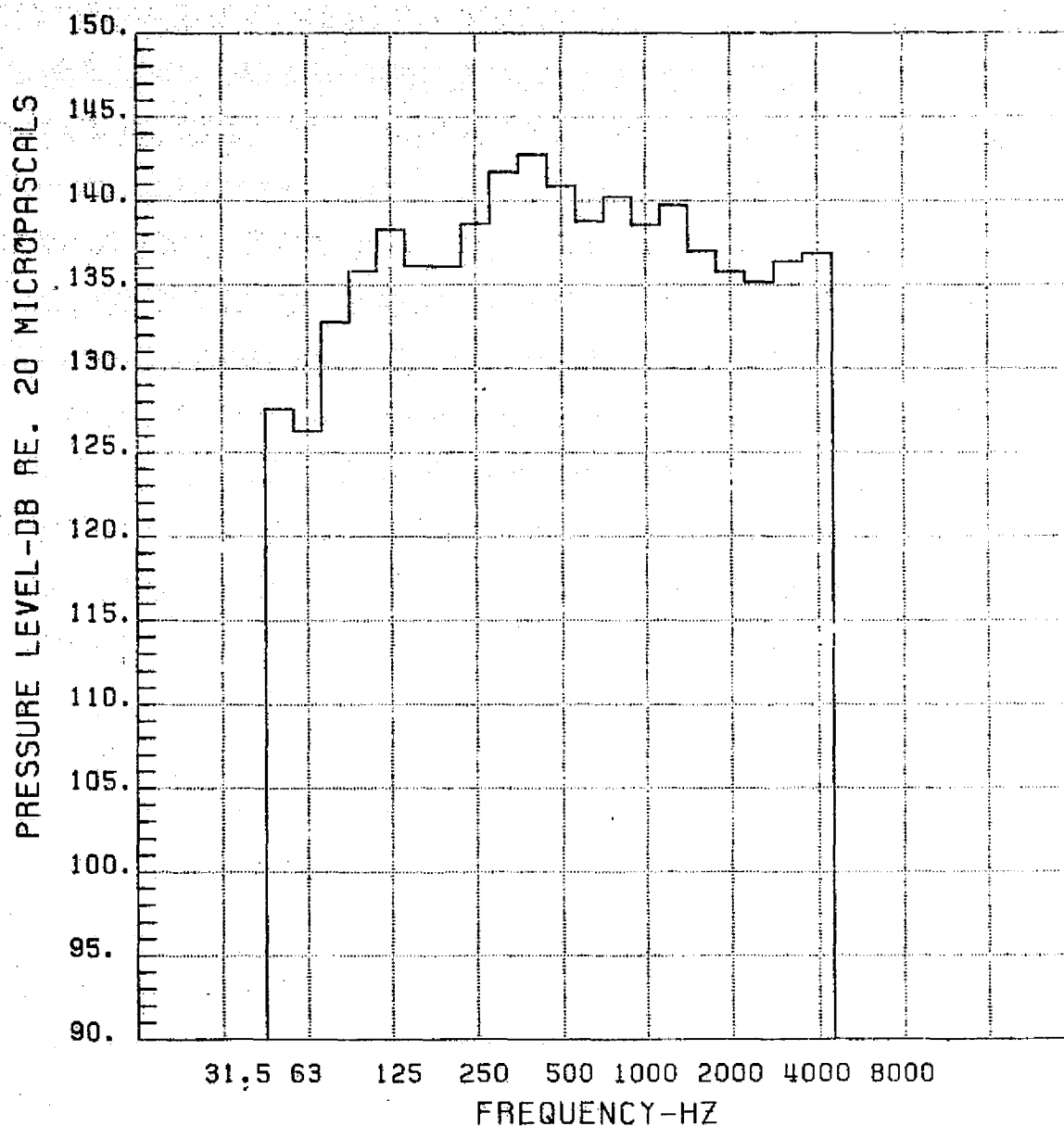
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INLET PRESS= 379. KPA (54.2 PSIA), COMB EXIT TEMP=650.5 DEG C (1203. DEG F),  
AIR FLOW=6.49 KG/SEC (14.3 #/SEC), FUEL FLOW=263. KG/HR (579. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 2.

GROUP: VI

RUN NUMBER: 11



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06437  
ONE THIRD OCTAVE BAND ANALYSIS

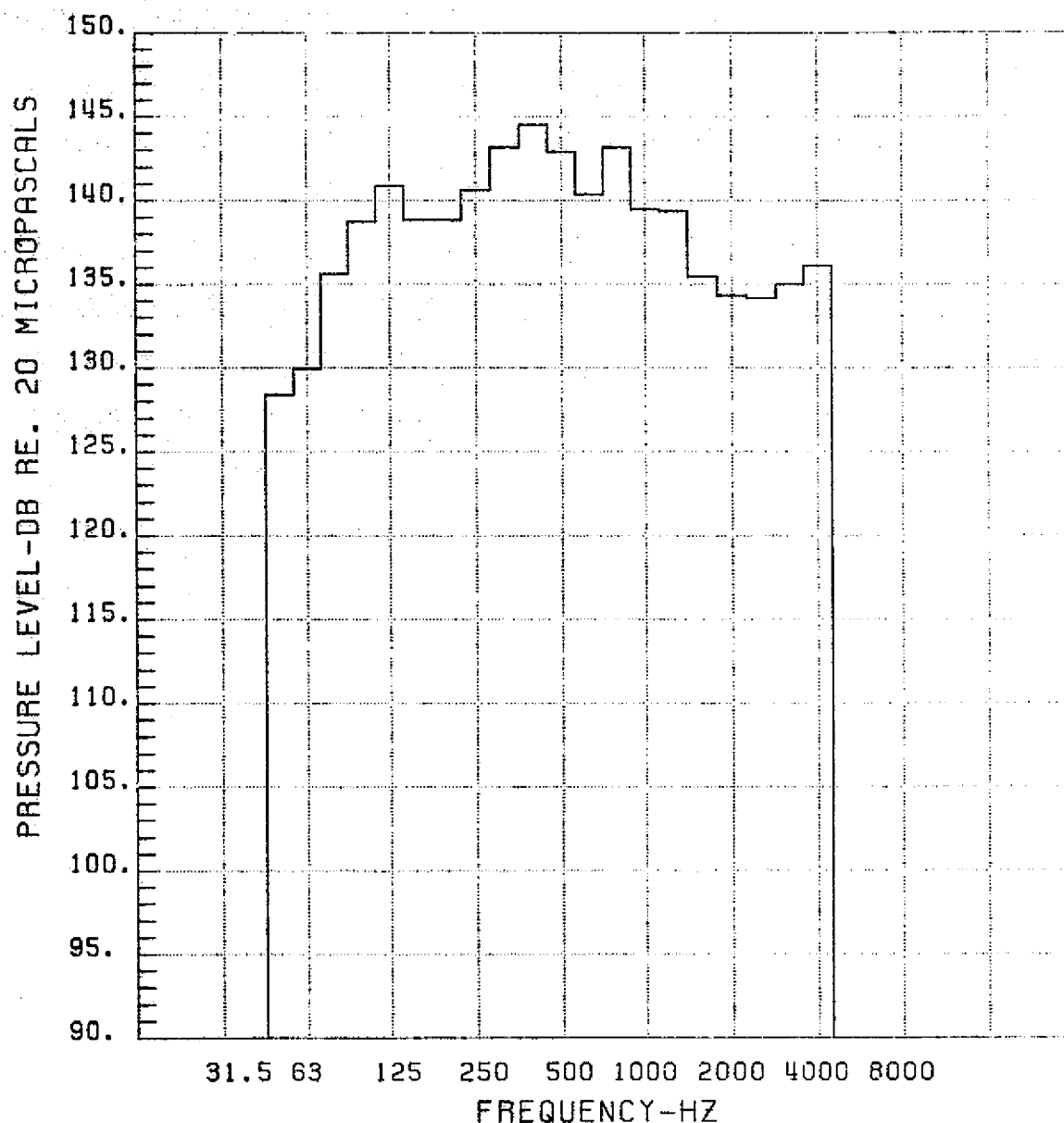
TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 373. KPA (54.2 PSIA), COMB EXIT TEMP=650.5 DEG C (1203. DEG F),  
AIR FLOW=6.49 KG/SEC (14.3 #/SEC), FUEL FLOW=263. KG/HR (579. #/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 3.

GROUP: VI

RUN NUMBER: 11



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 373. KPA (54.2 PSIA), COMB EXIT TEMP=650.5 DEG C (1203. DEG F),  
AIR FLOW=6.49 KG/SEC (14.3 #/SEC), FUEL FLOW= 263. KG/HR (579. #/HR)

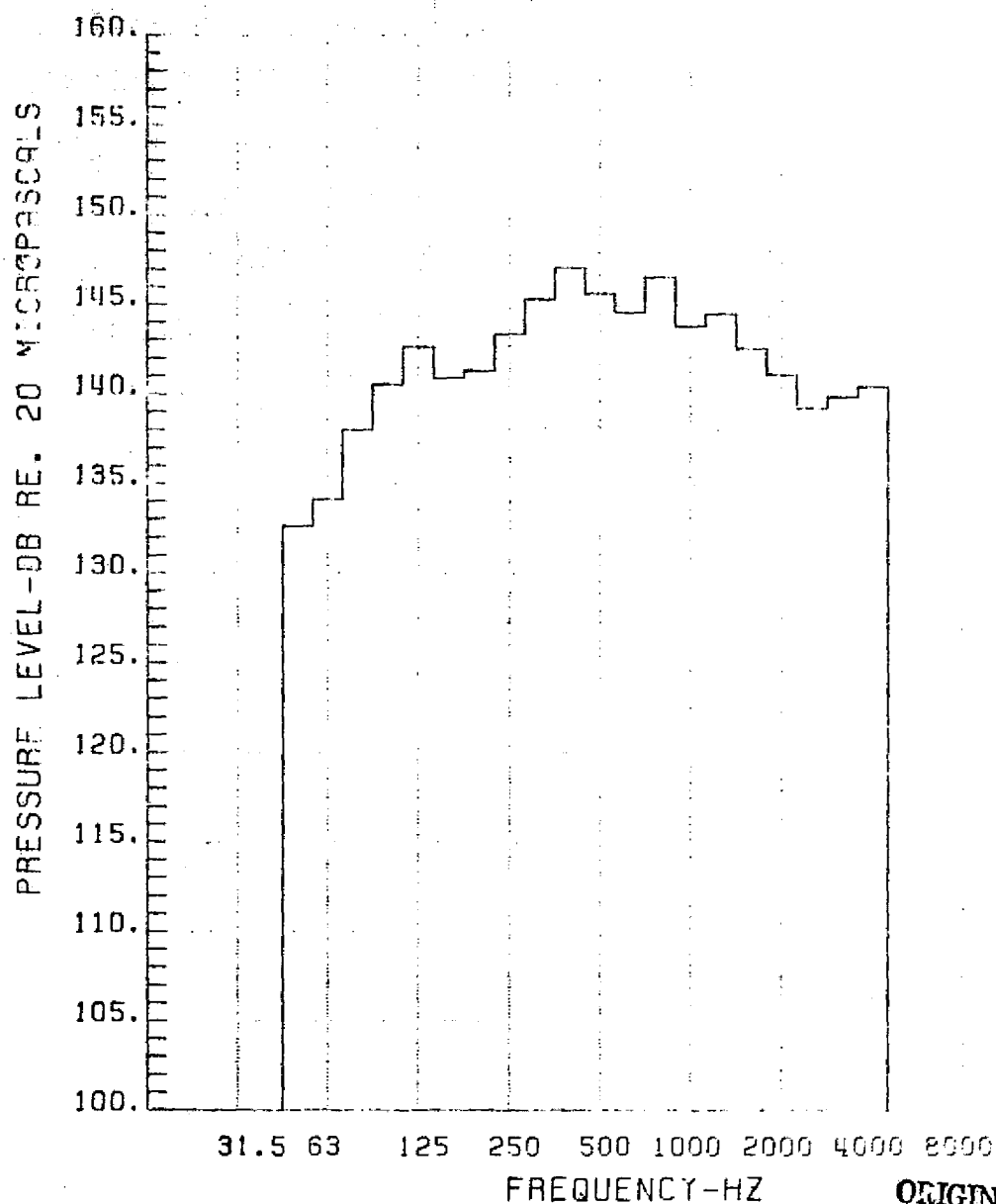
TEST DATE: 4/19-21/77

PROBE NUMBER: 4.

GROUP: VI

RUN NUMBER: 11





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OF POOR QUALITY

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ONE THIRD OCTAVE BAND ANALYSIS

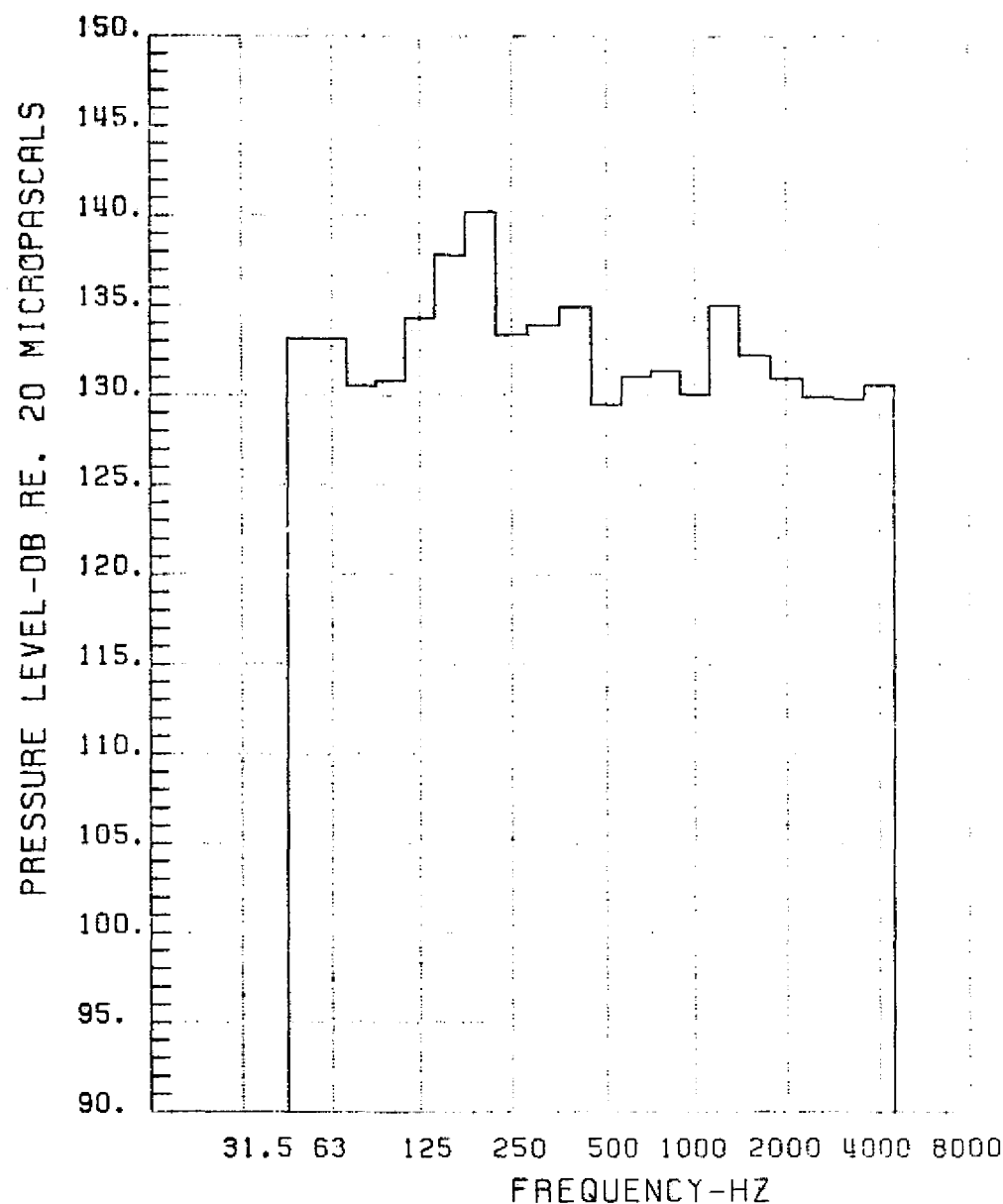
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INLET PRESS= 373. KPA (54.2 PSIA), COMB EXIT TEMP=650.5 DEG C (1203. DEG F),  
AIR FLOW=6.49 KG/SEC (14.3 \*/SEC), FUEL FLOW= 263. KG/HR (579. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 5.

GROUP: VI

RUN NUMBER: 11



AVCO-LYCOMING DIVISION  
550 SOUTH MAIN ST., STRATFORD, CONN. 06497  
ONE THIRD OCTAVE BAND ANALYSIS

TITLE: OFF DESIGN COMBUSTOR INLET TEMPERATURE OPERATING POINTS  
INLET PRESS= 373. KPA (54.2 PSIA), COMB EXIT TEMP=650.5 DEG C (1203. DEG F),  
AIR FLOW=6.49 KG/SEC (14.3 \*/SEC), FUEL FLOW= 263. KG/HR (579. \*/HR)

TEST DATE: 4/19-21/77

PROBE NUMBER: 6.

GROUP: VI

RUN NUMBER: 11